

Server Components Supporting Application Delivery & Execution License

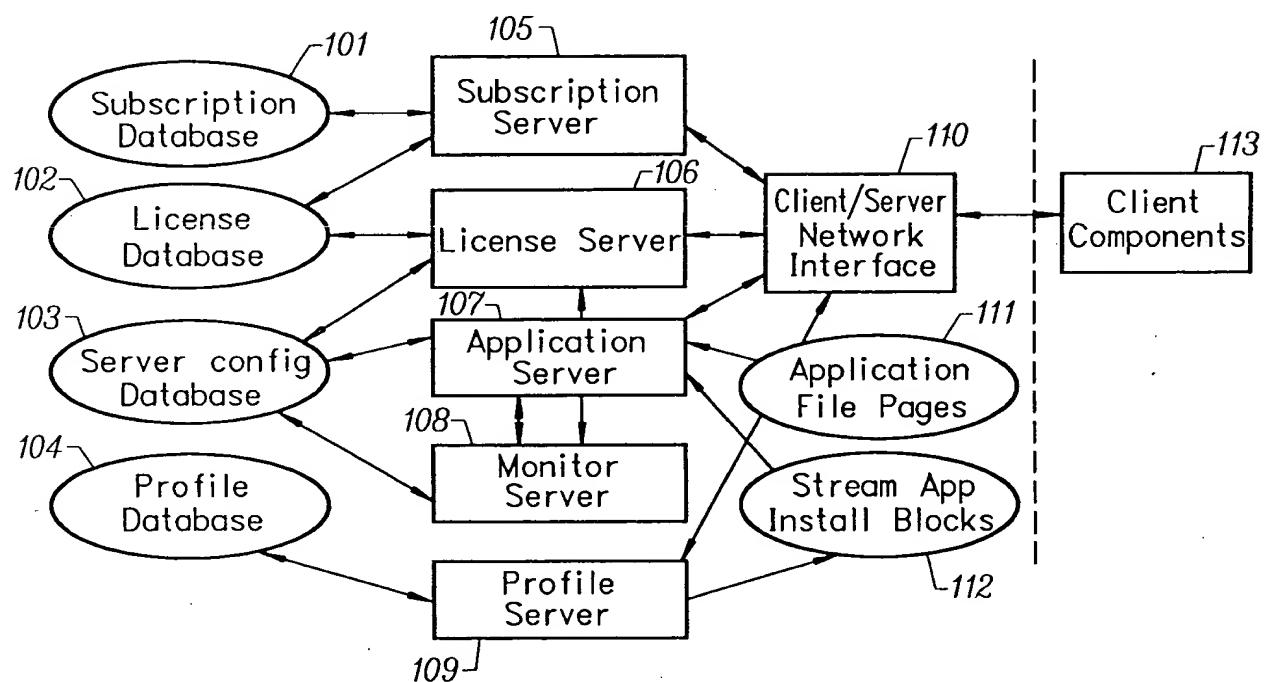


FIG. 1

Client Components Supporting Application Delivery & Execution

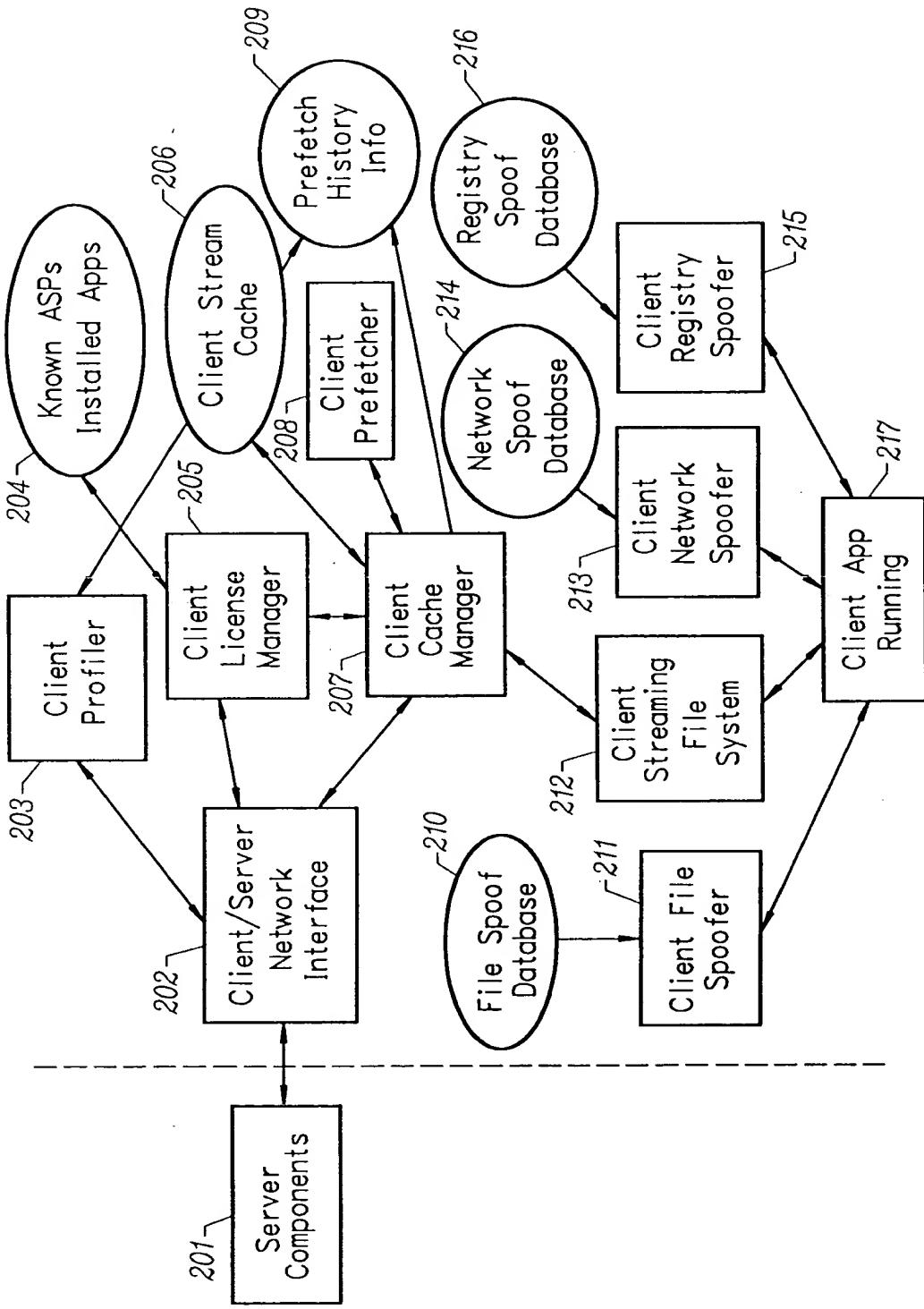


FIG. 2

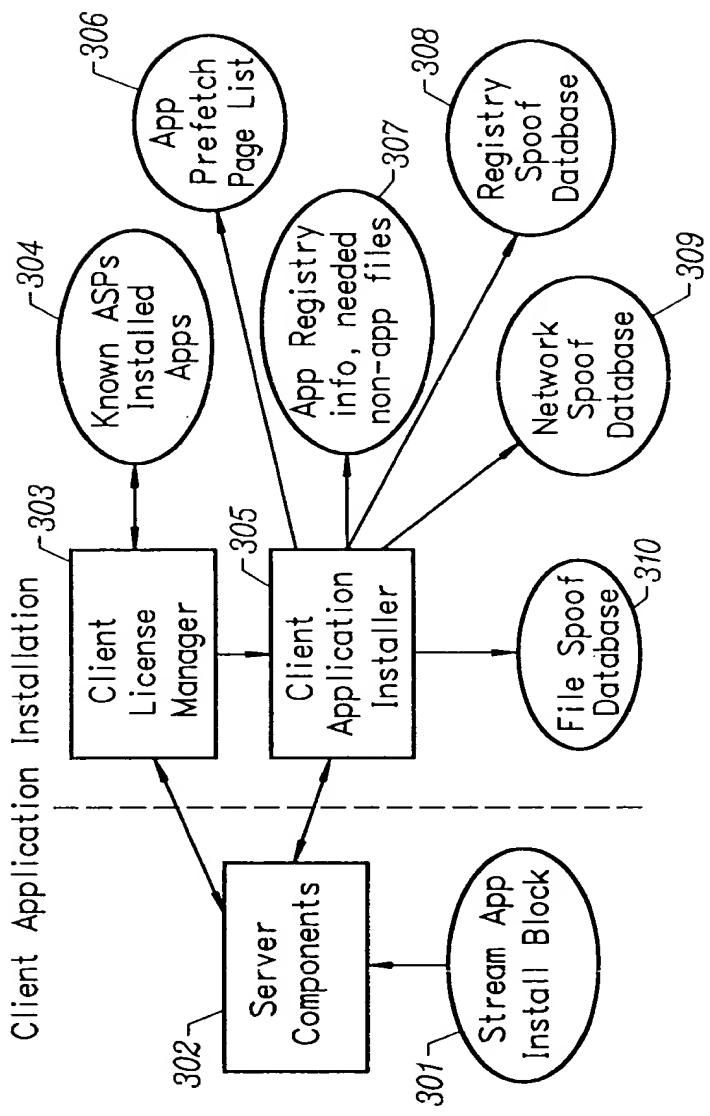


FIG. 3

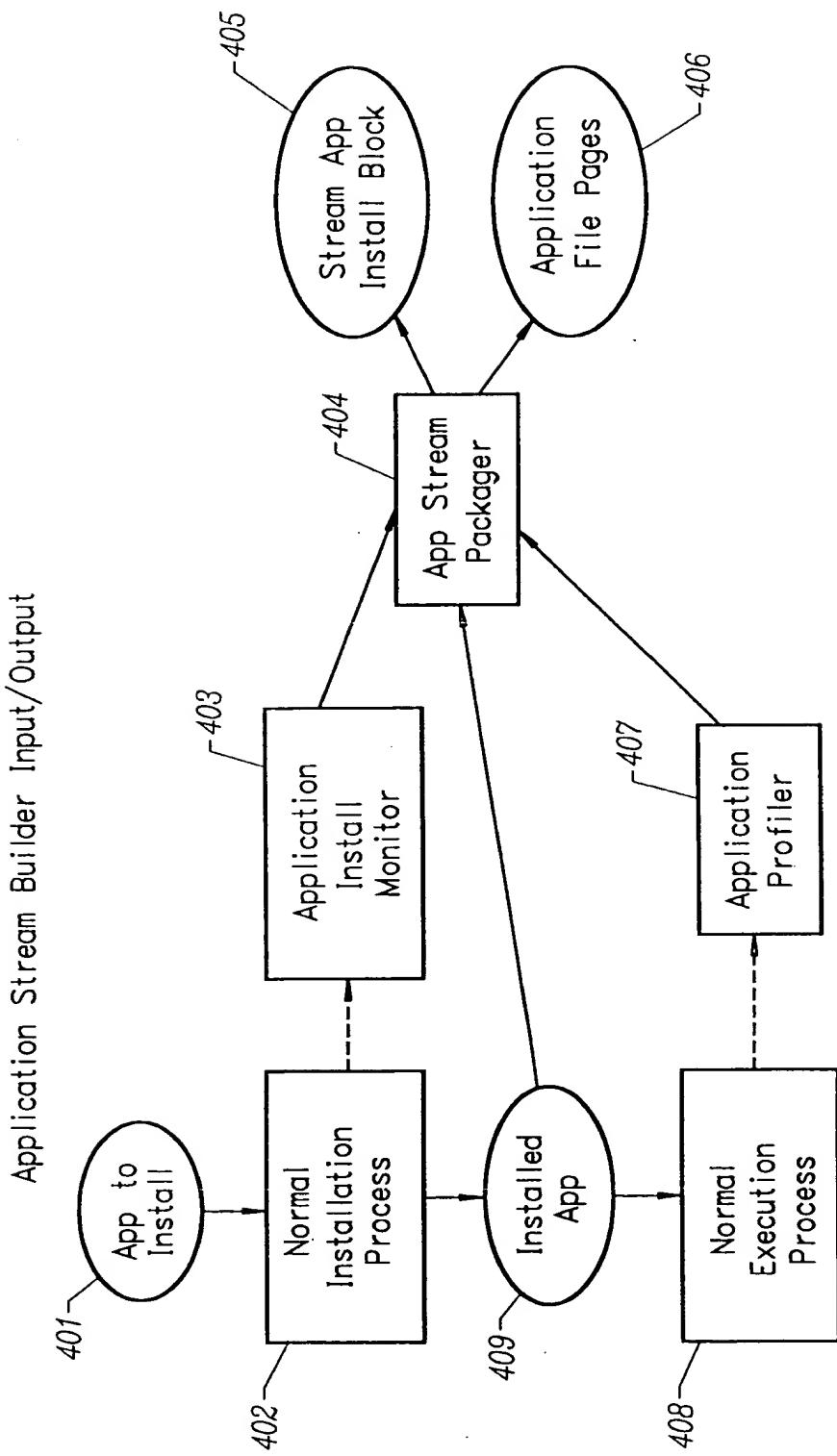
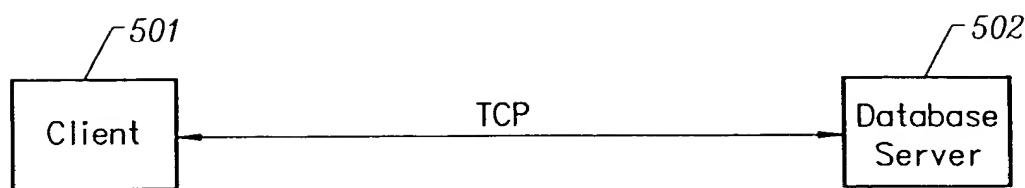


FIG. 4



Client-Server Application
over TCP

FIG. 5A

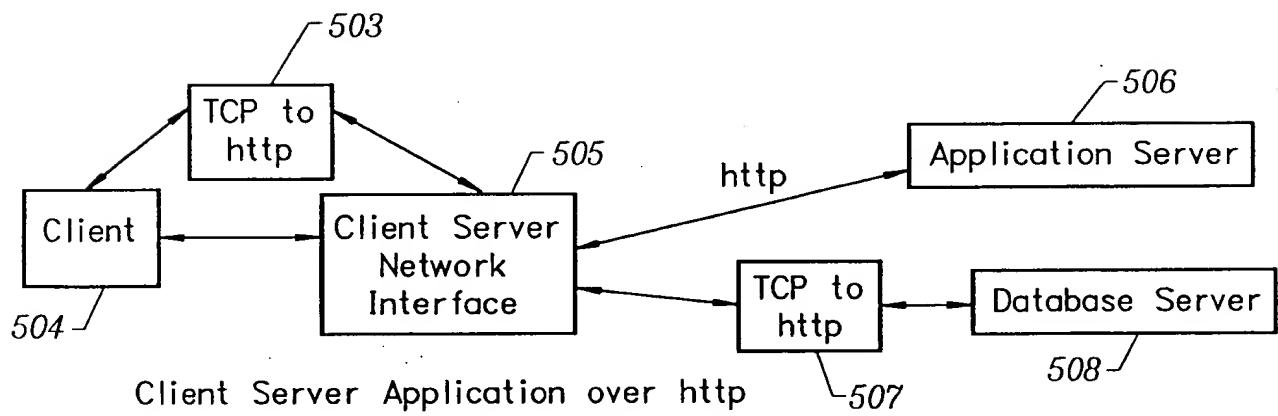


FIG. 5B

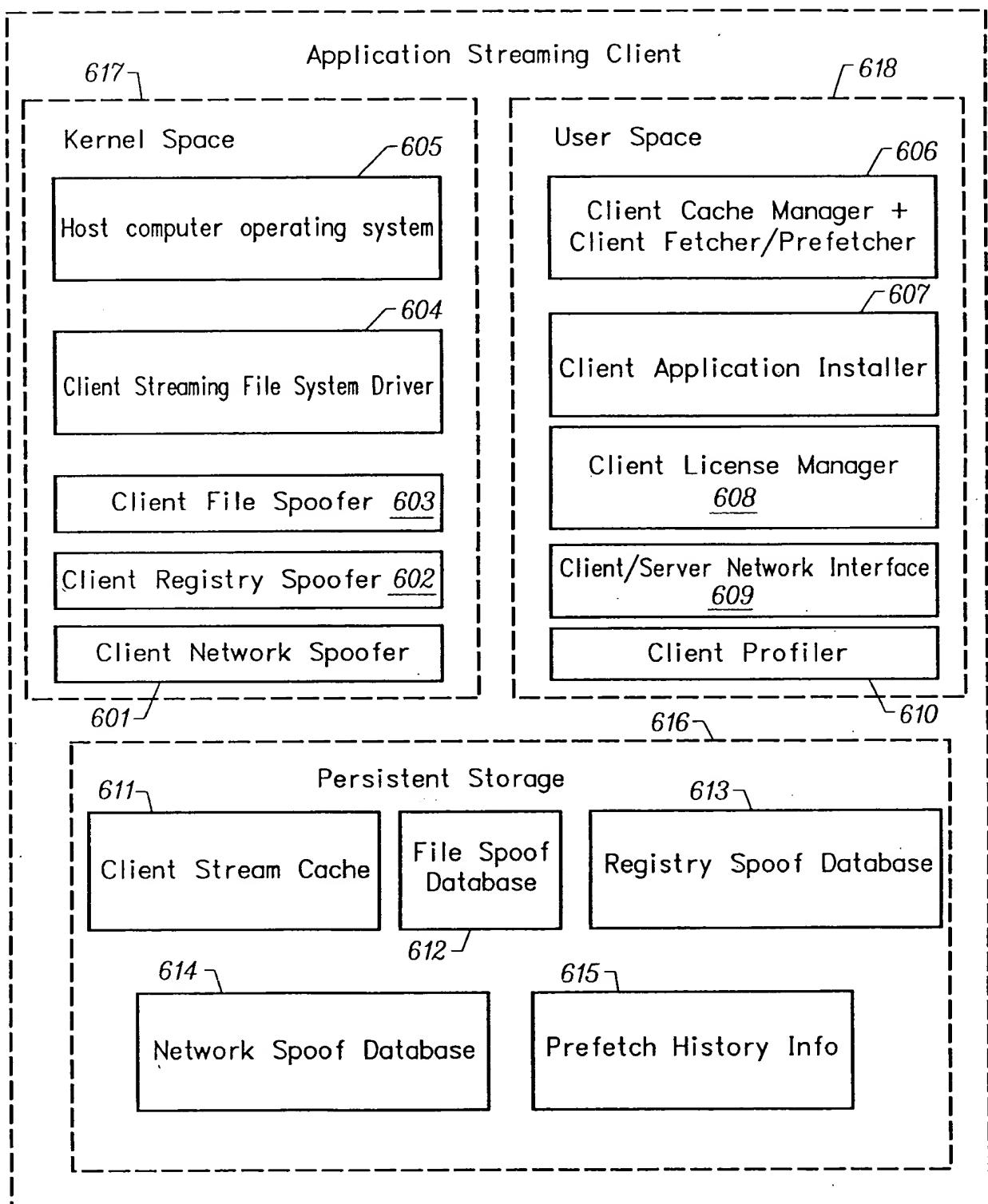


FIG. 6A

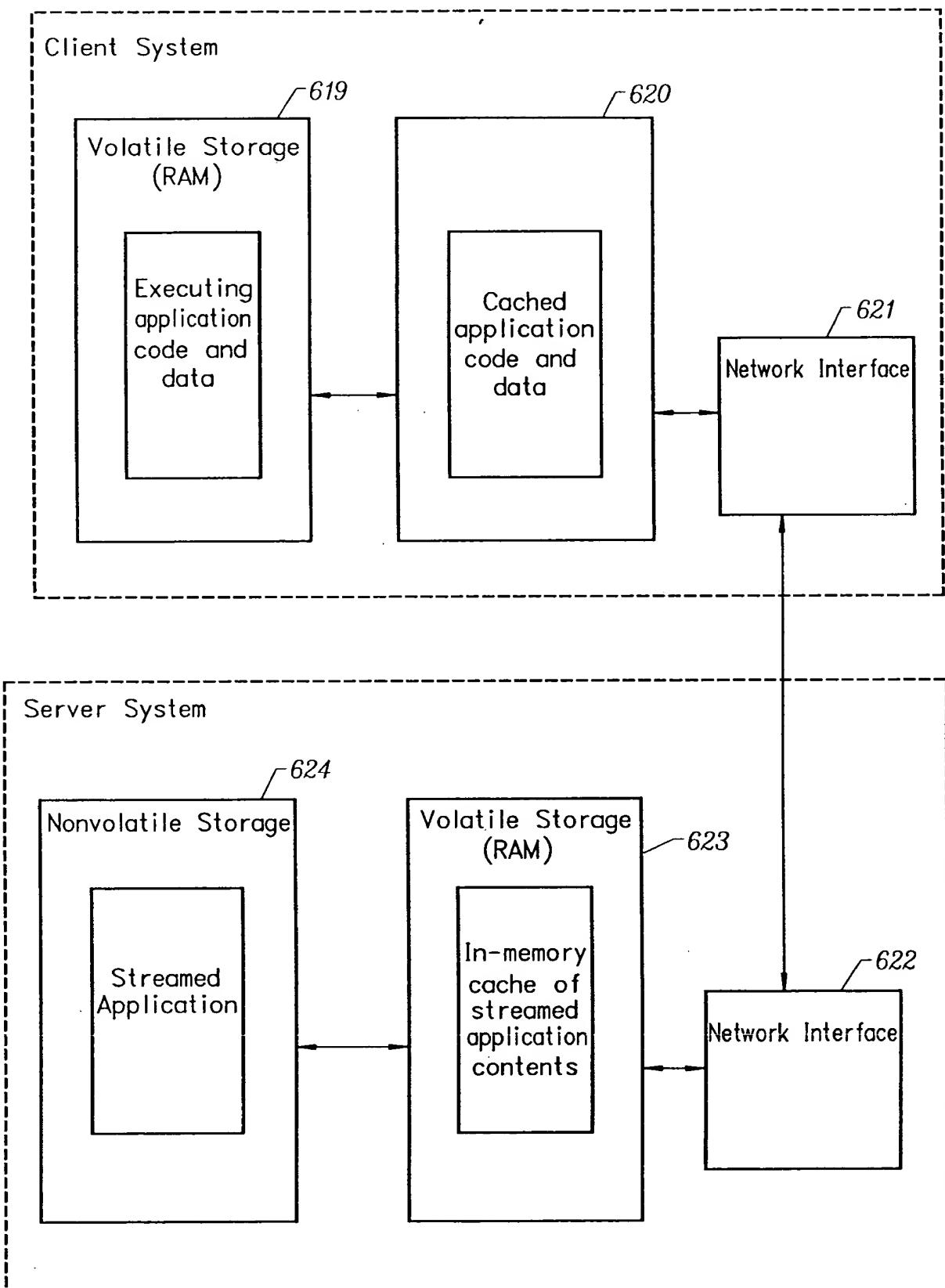


FIG. 6B

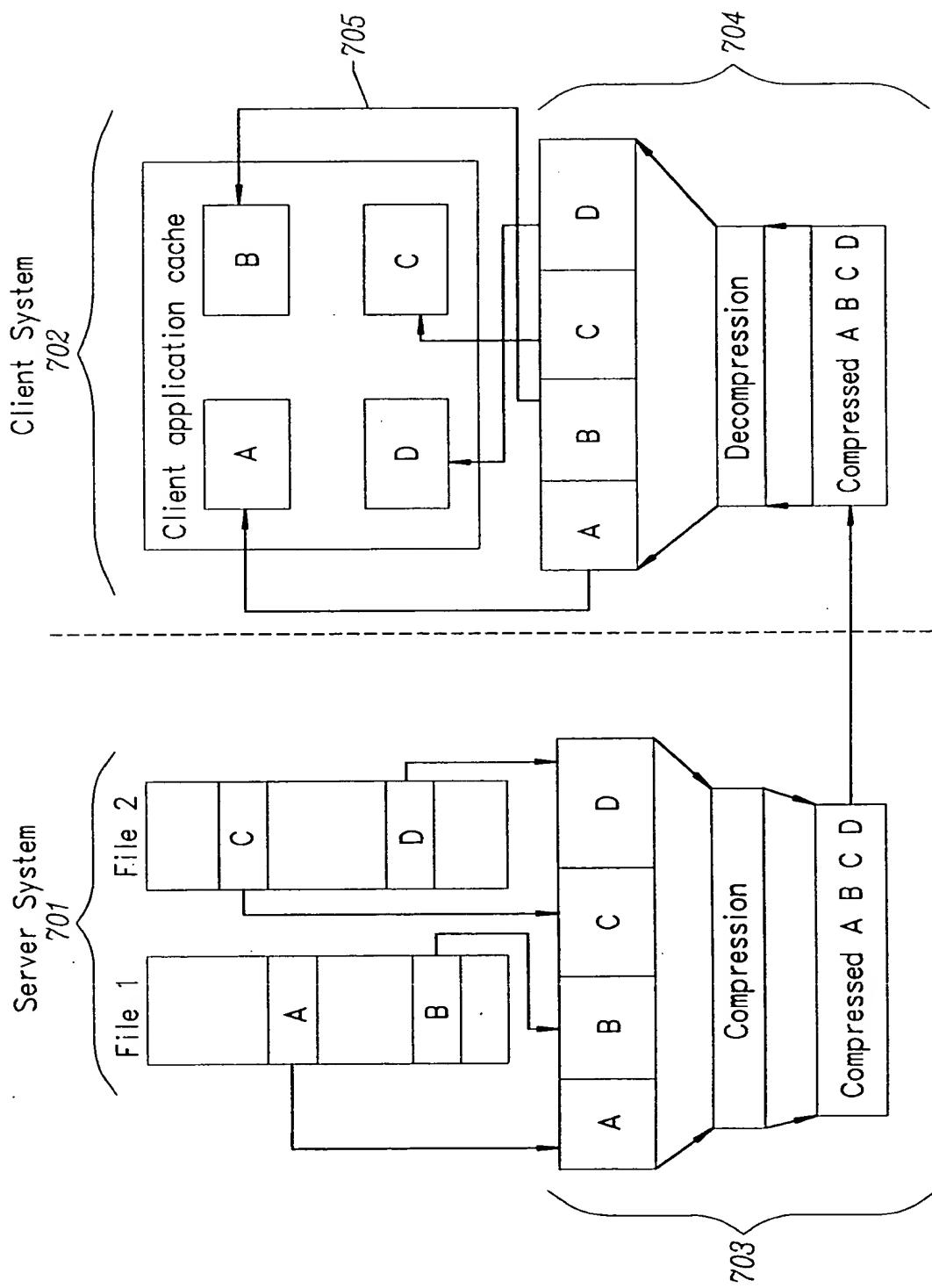


FIG. 7A

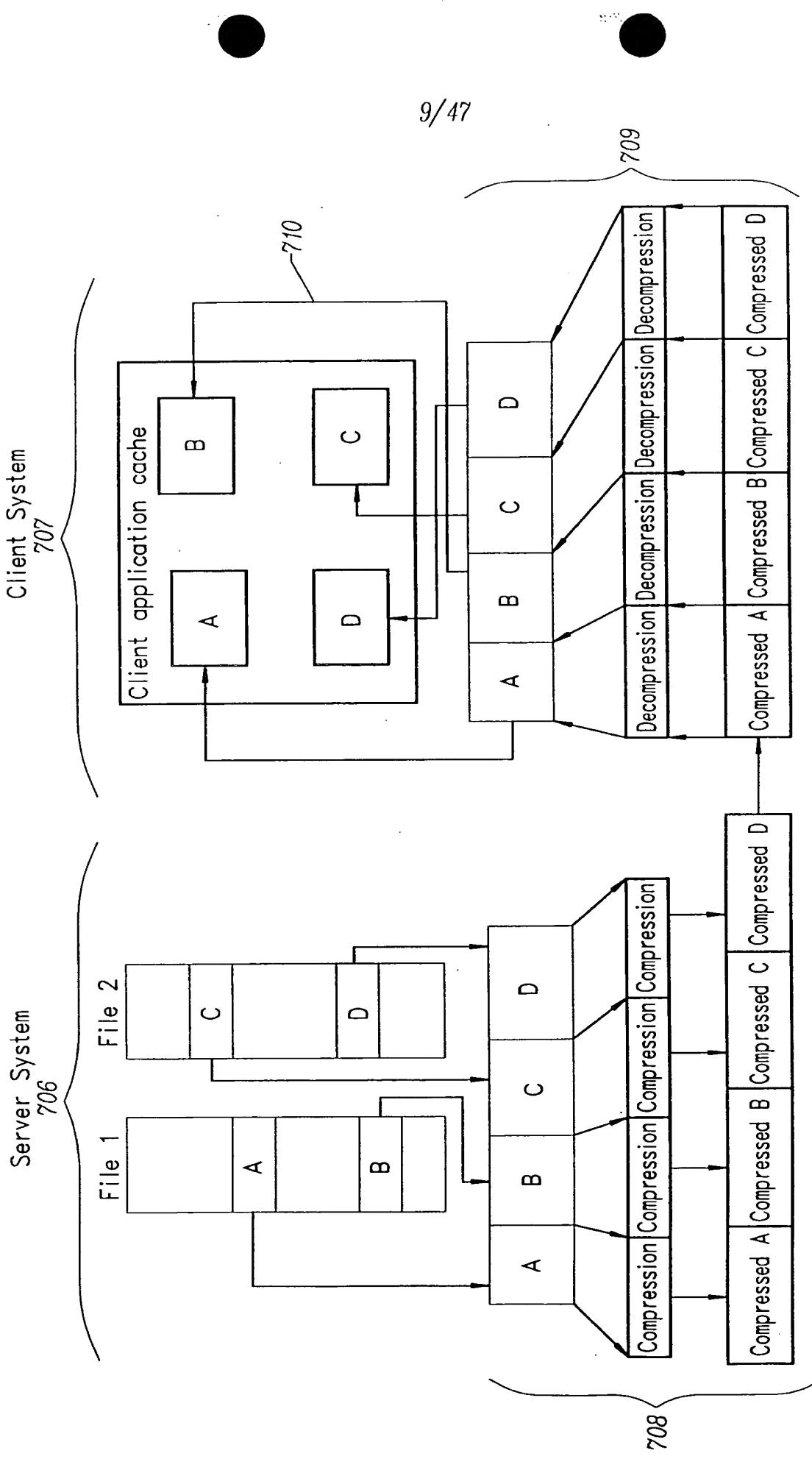


FIG. 7B

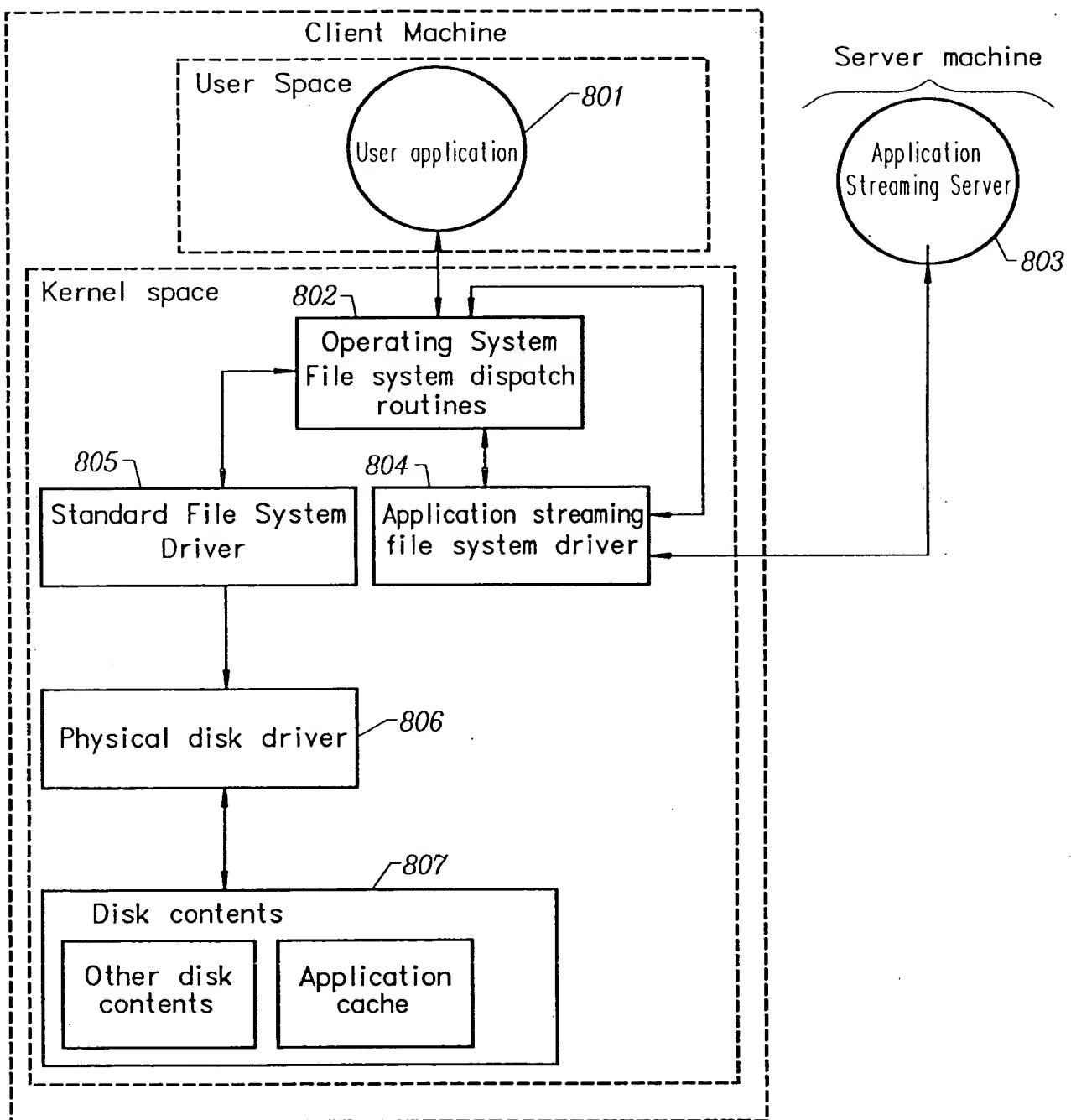


FIG. 8

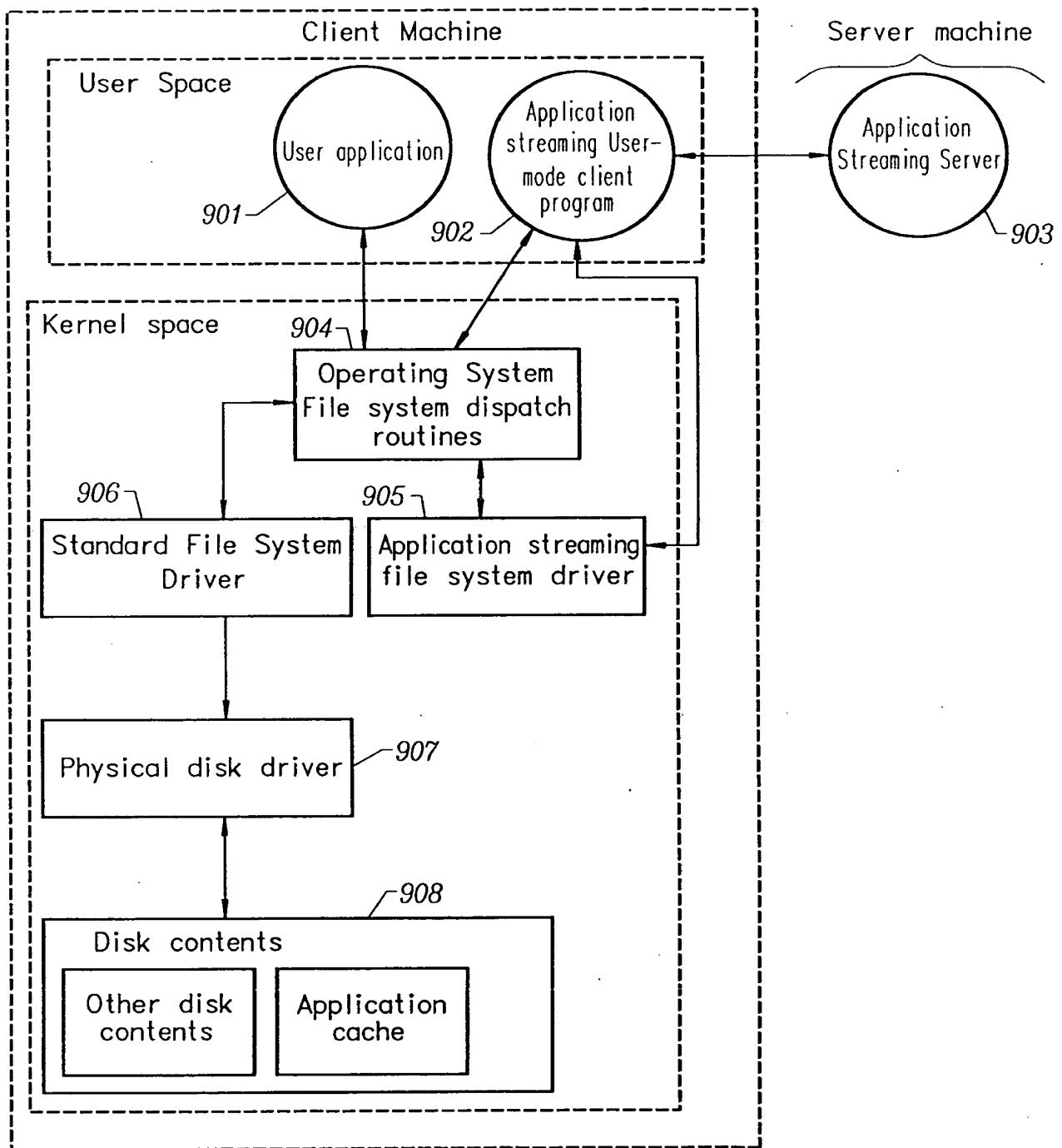


FIG. 9

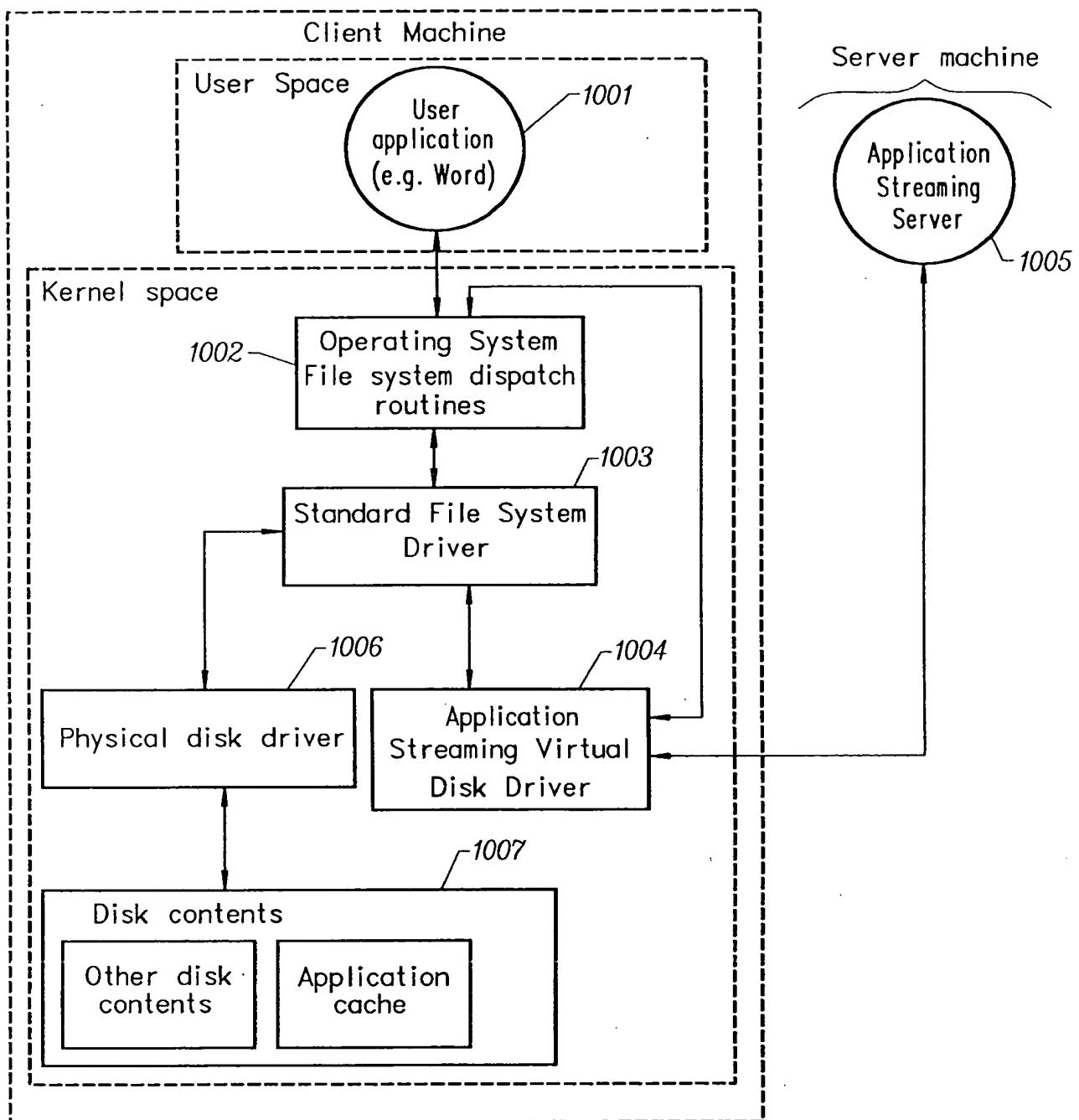


FIG. 10

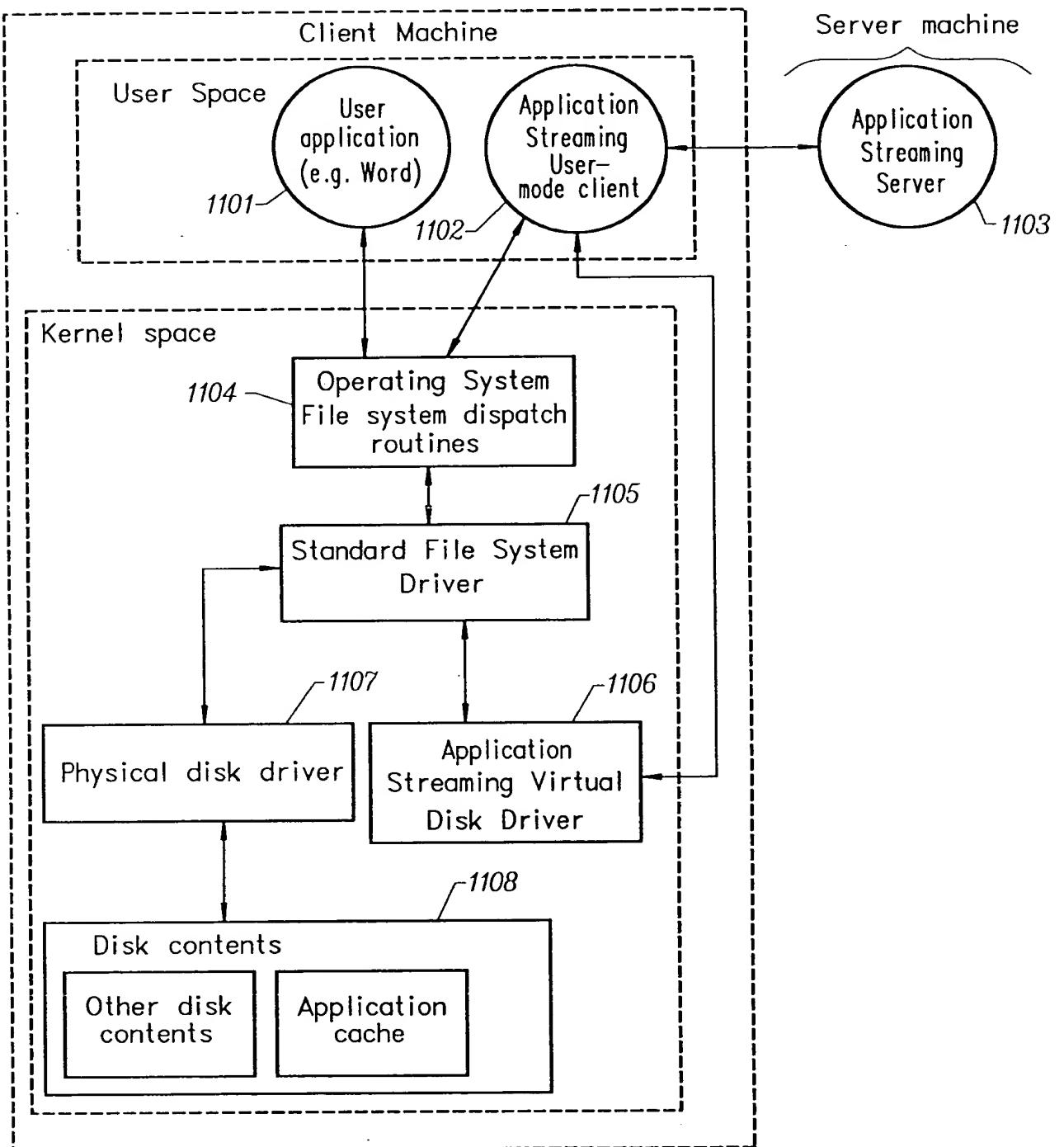
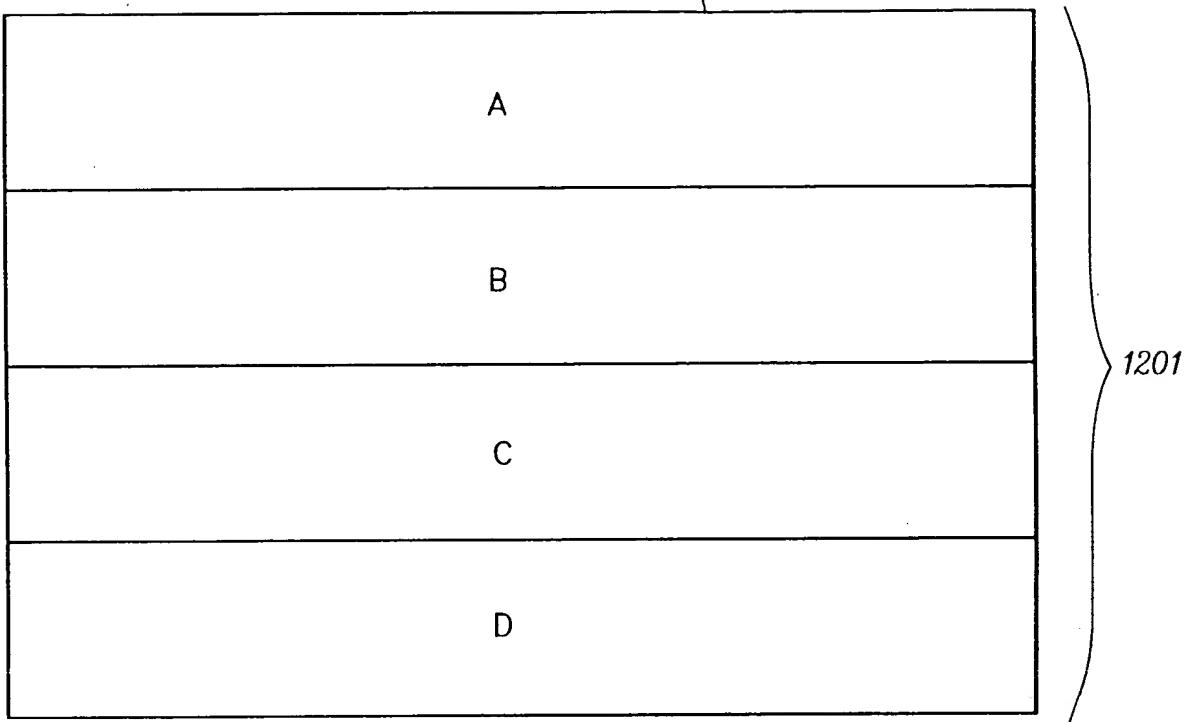


FIG. 11

Unencrypted Cache



Encrypted Cache

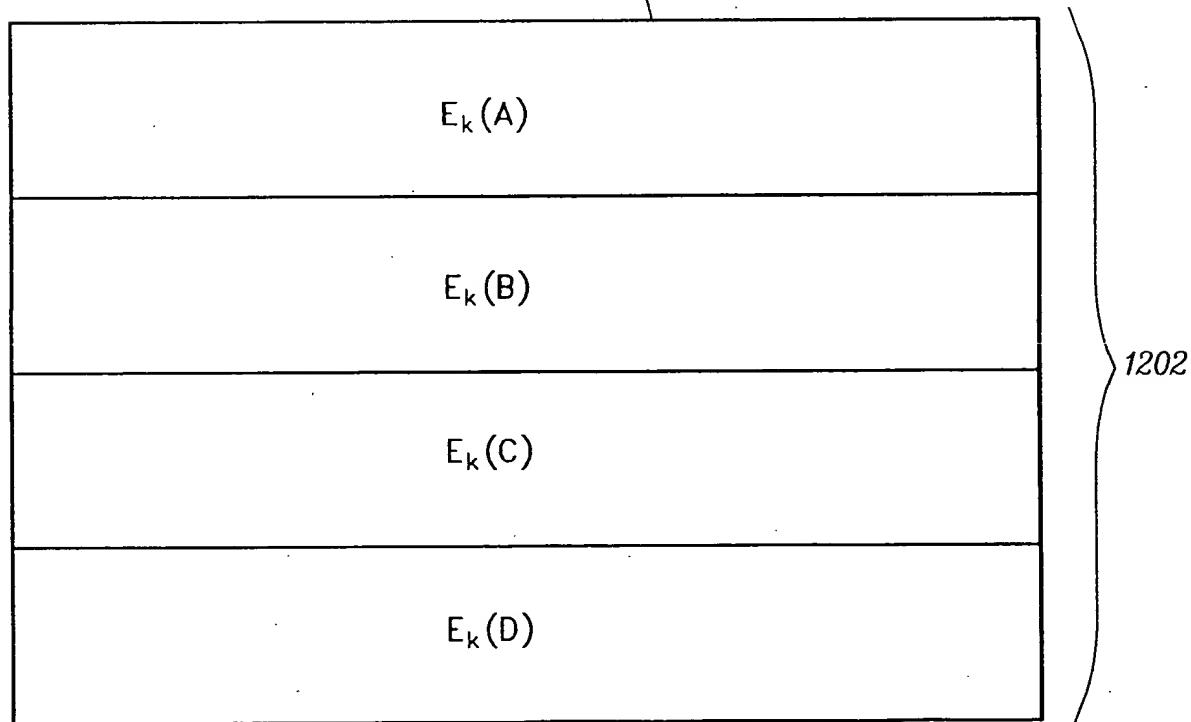


FIG. 12

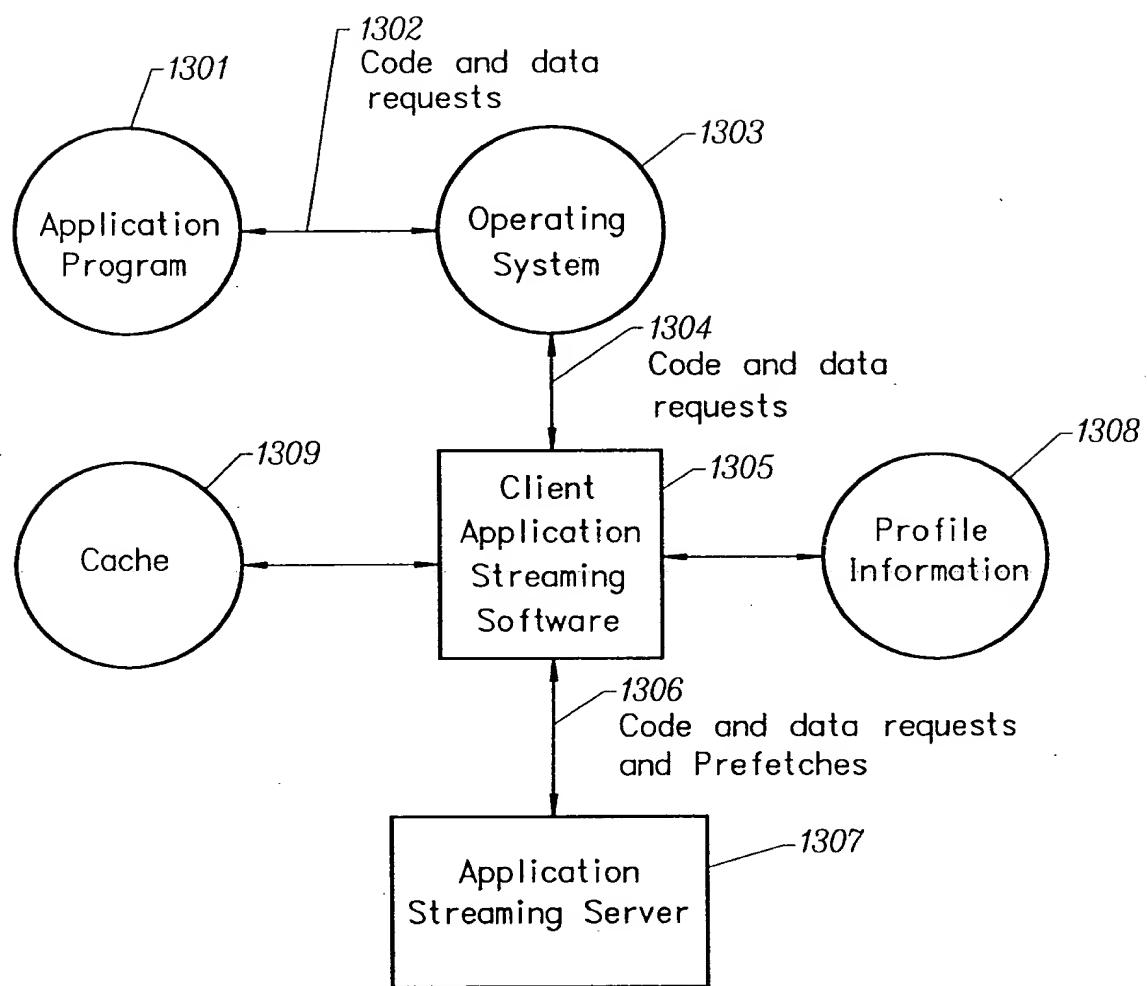


FIG. 13

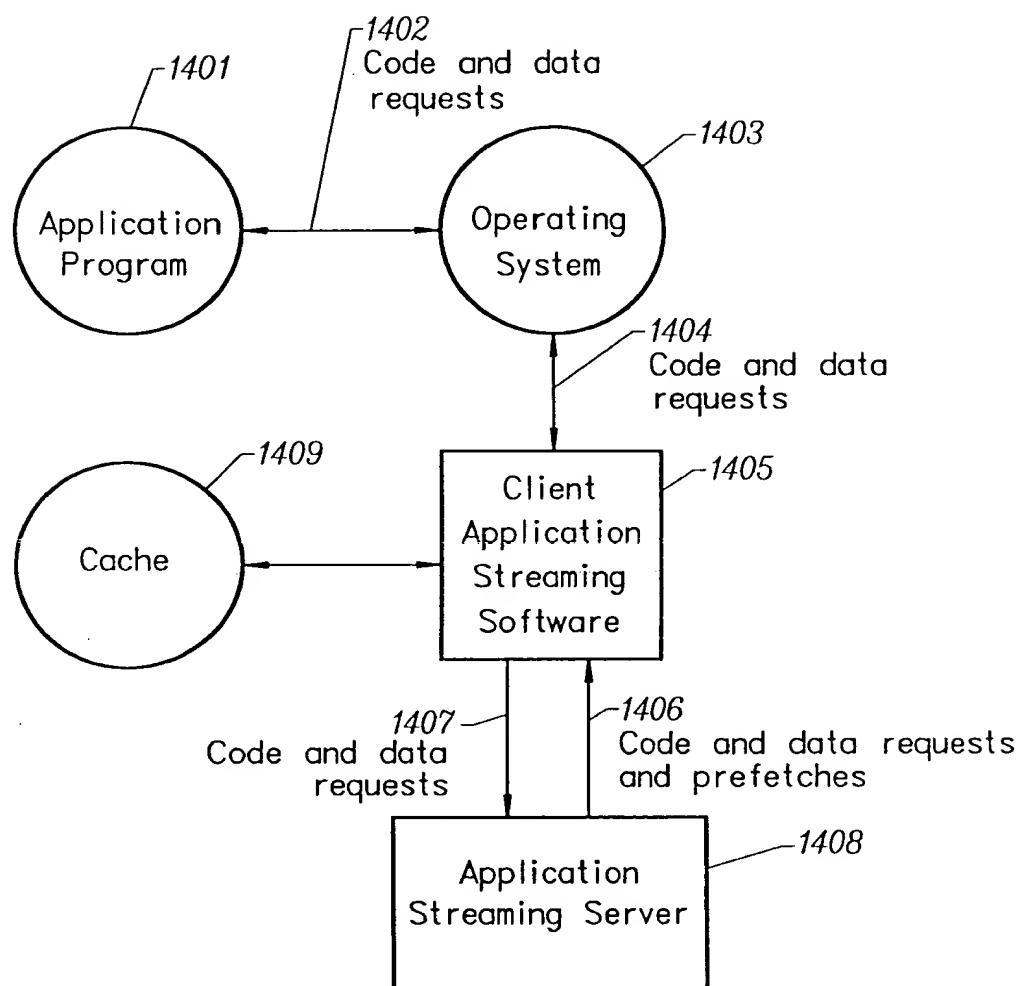


FIG. 14

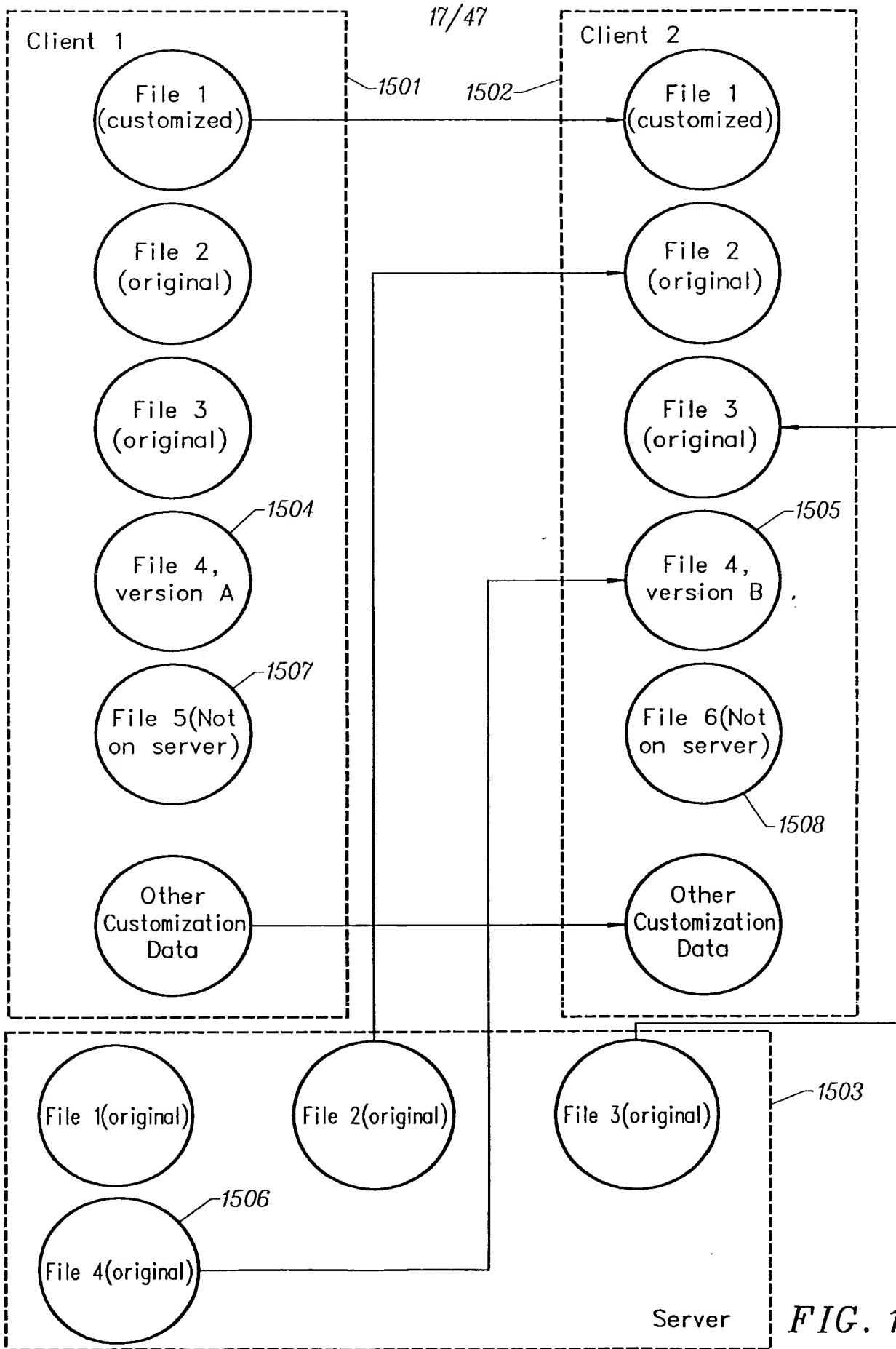


FIG. 15

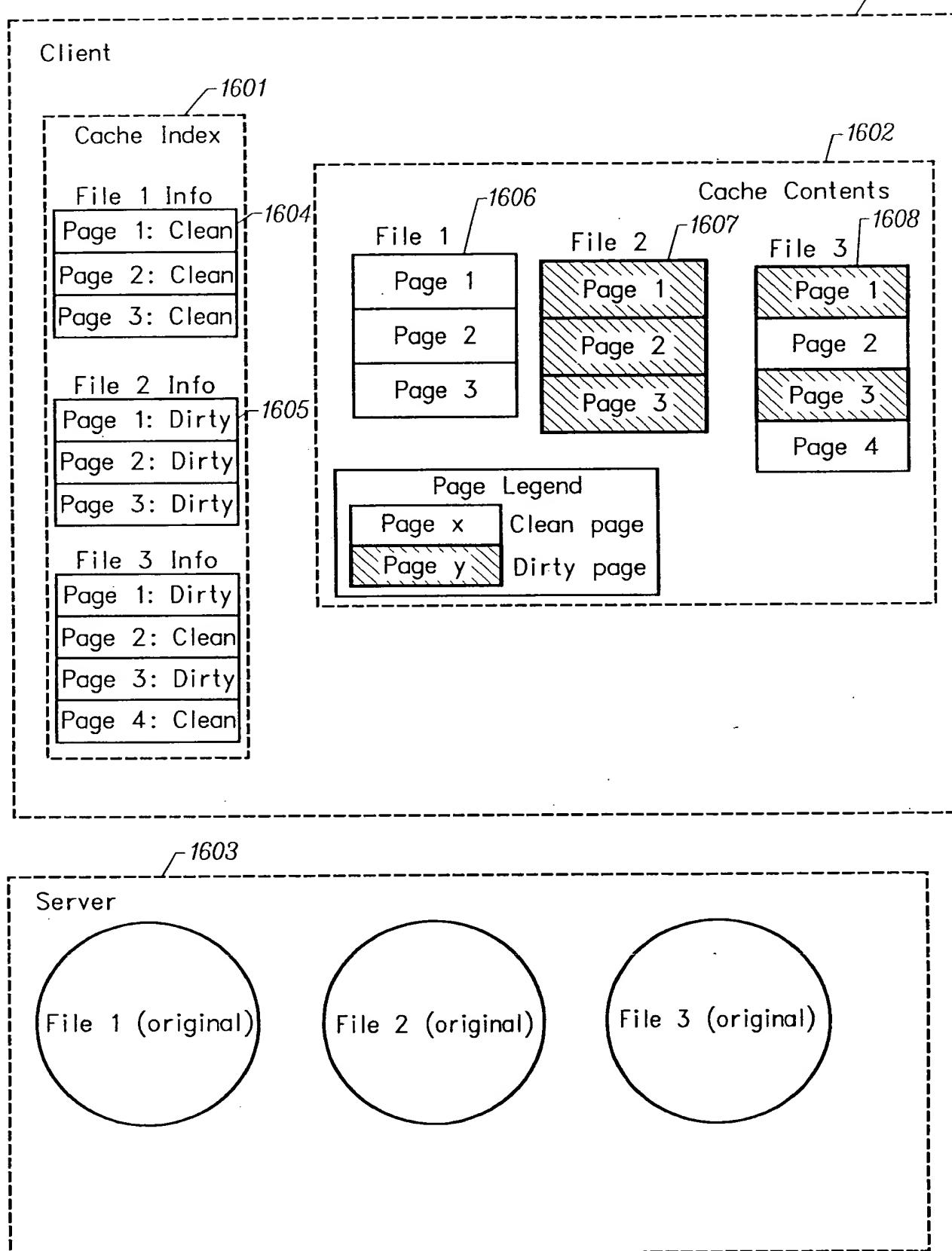


FIG. 16

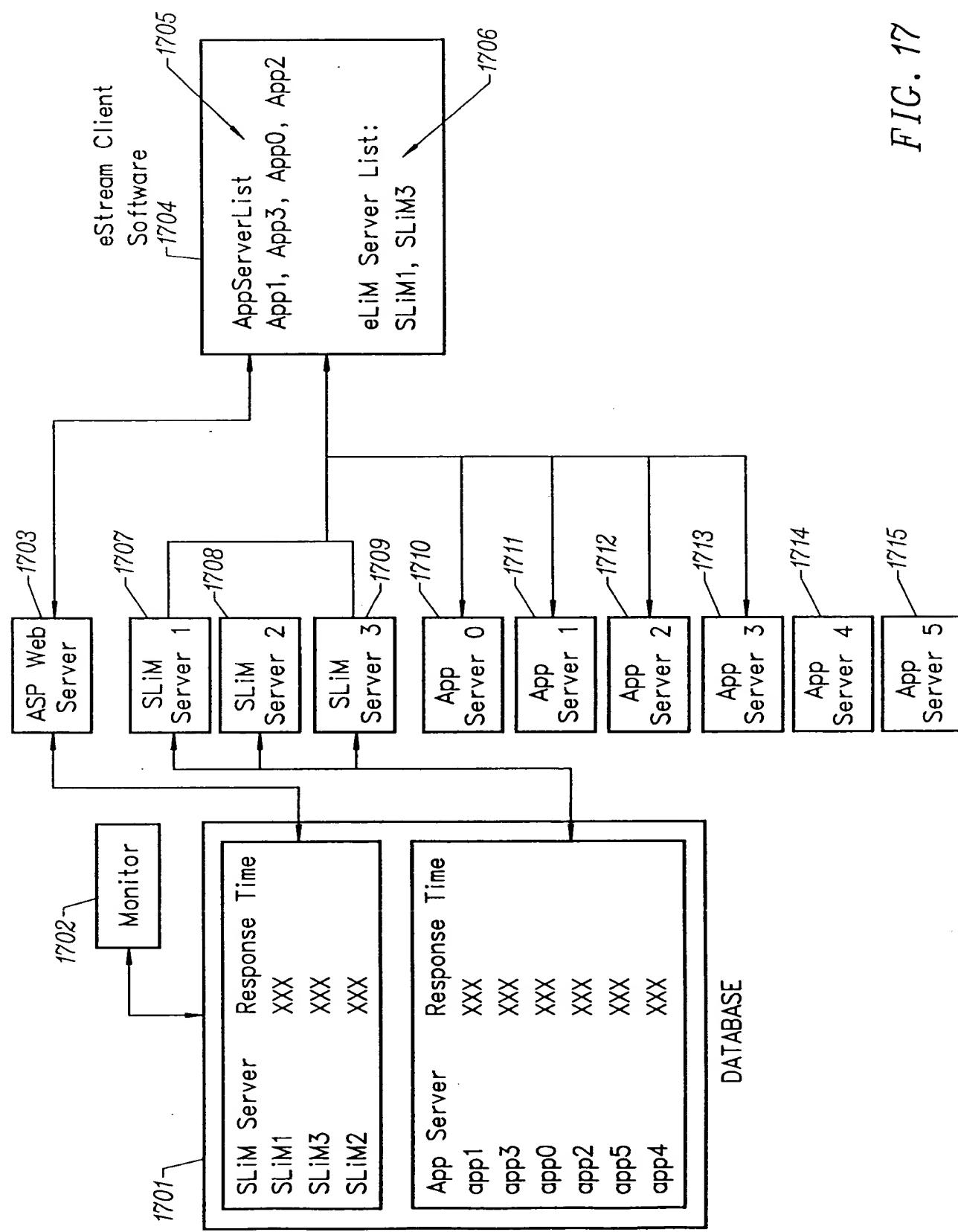
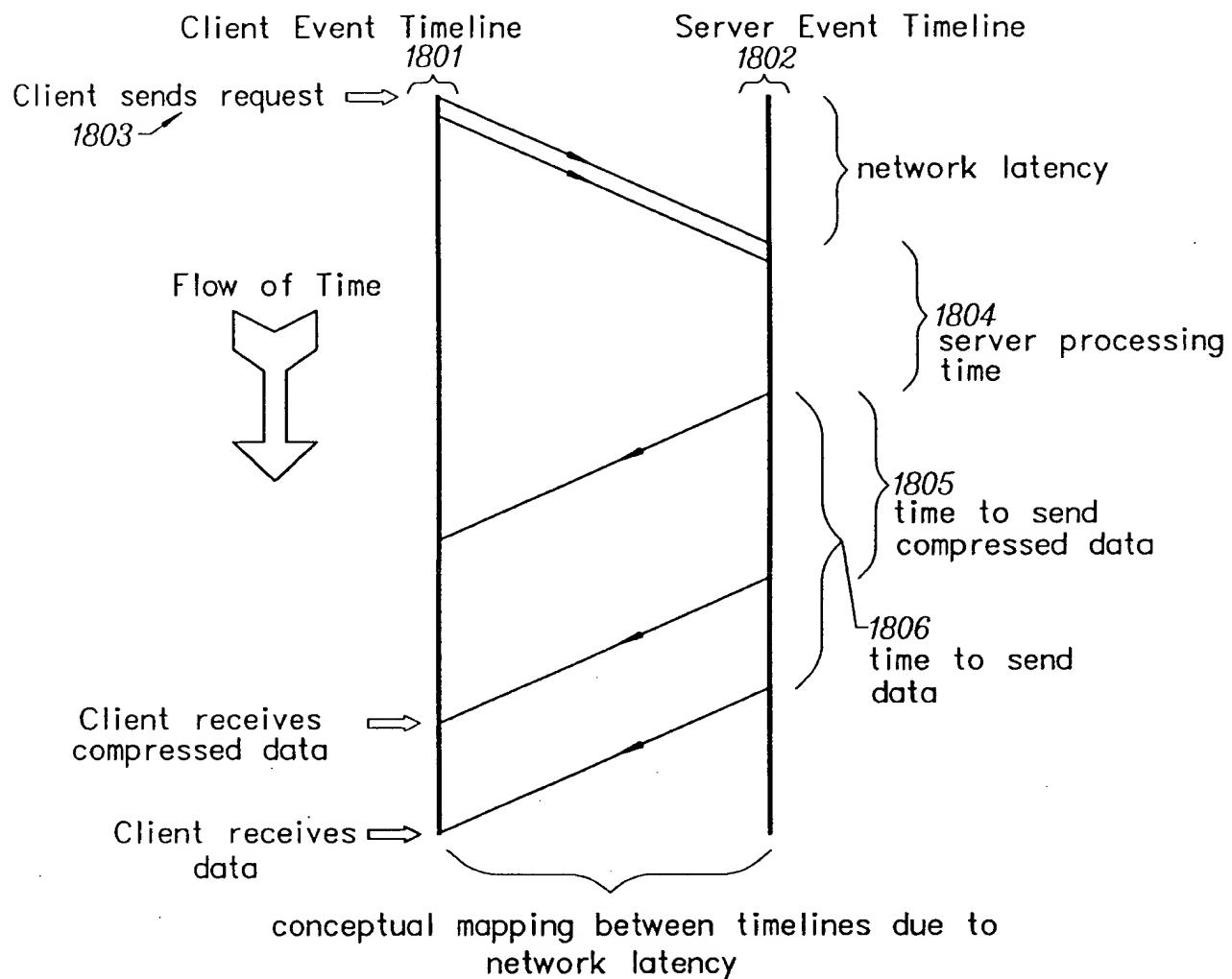


FIG. 17



Client receives data sooner if it is compressed

FIG. 18

Pre-Compression

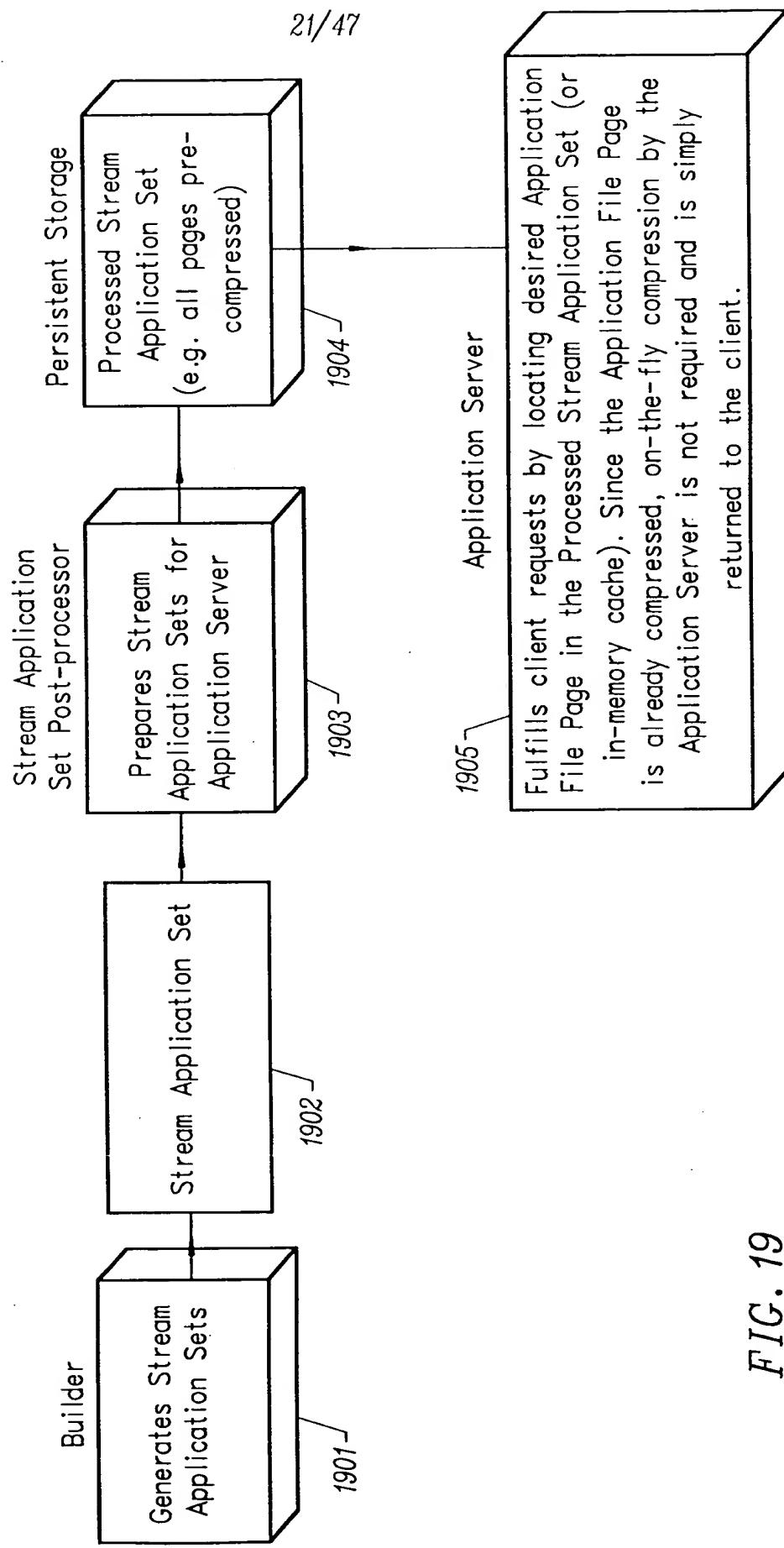
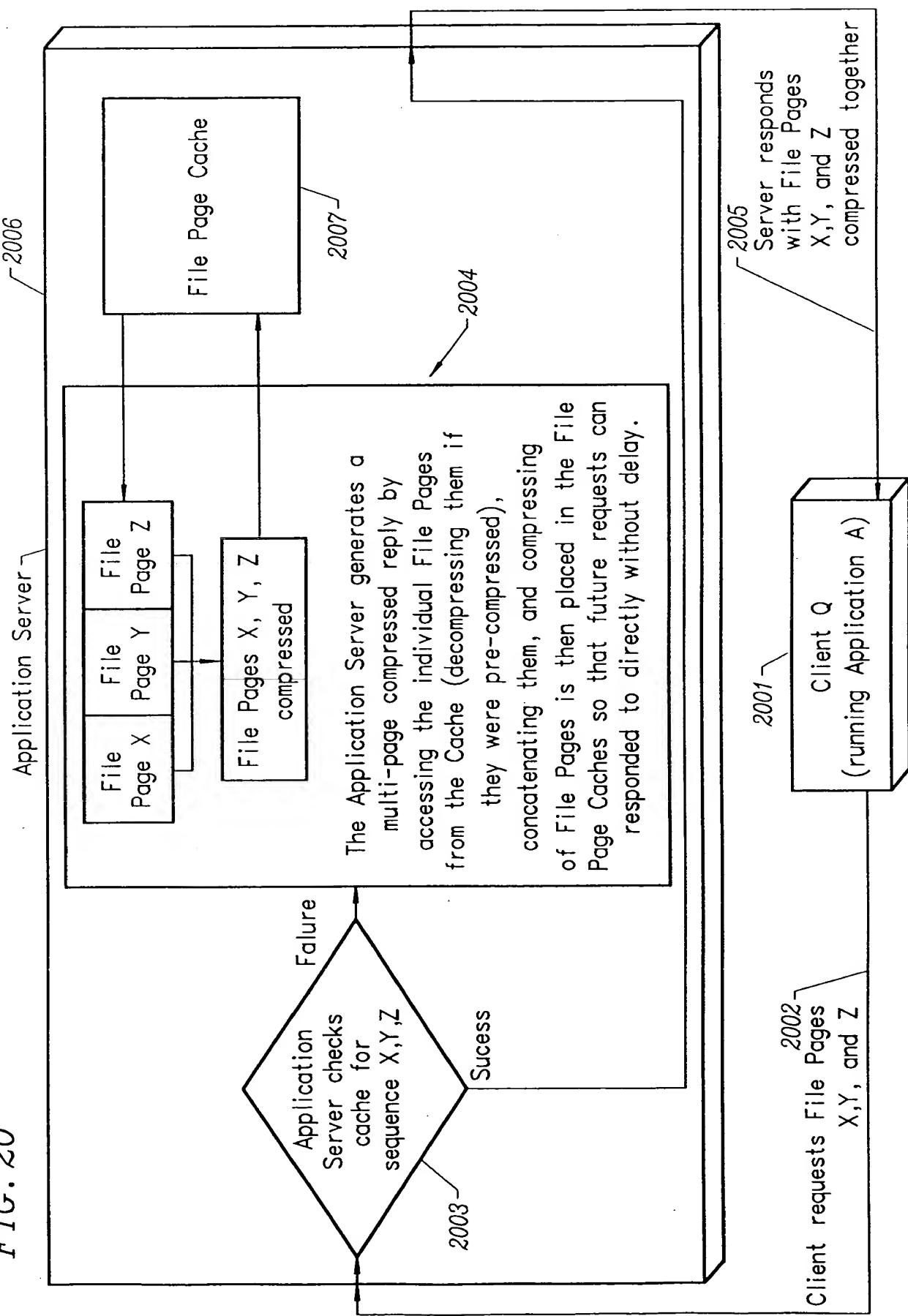


FIG. 19

FIG. 20

Multi-Page Compression



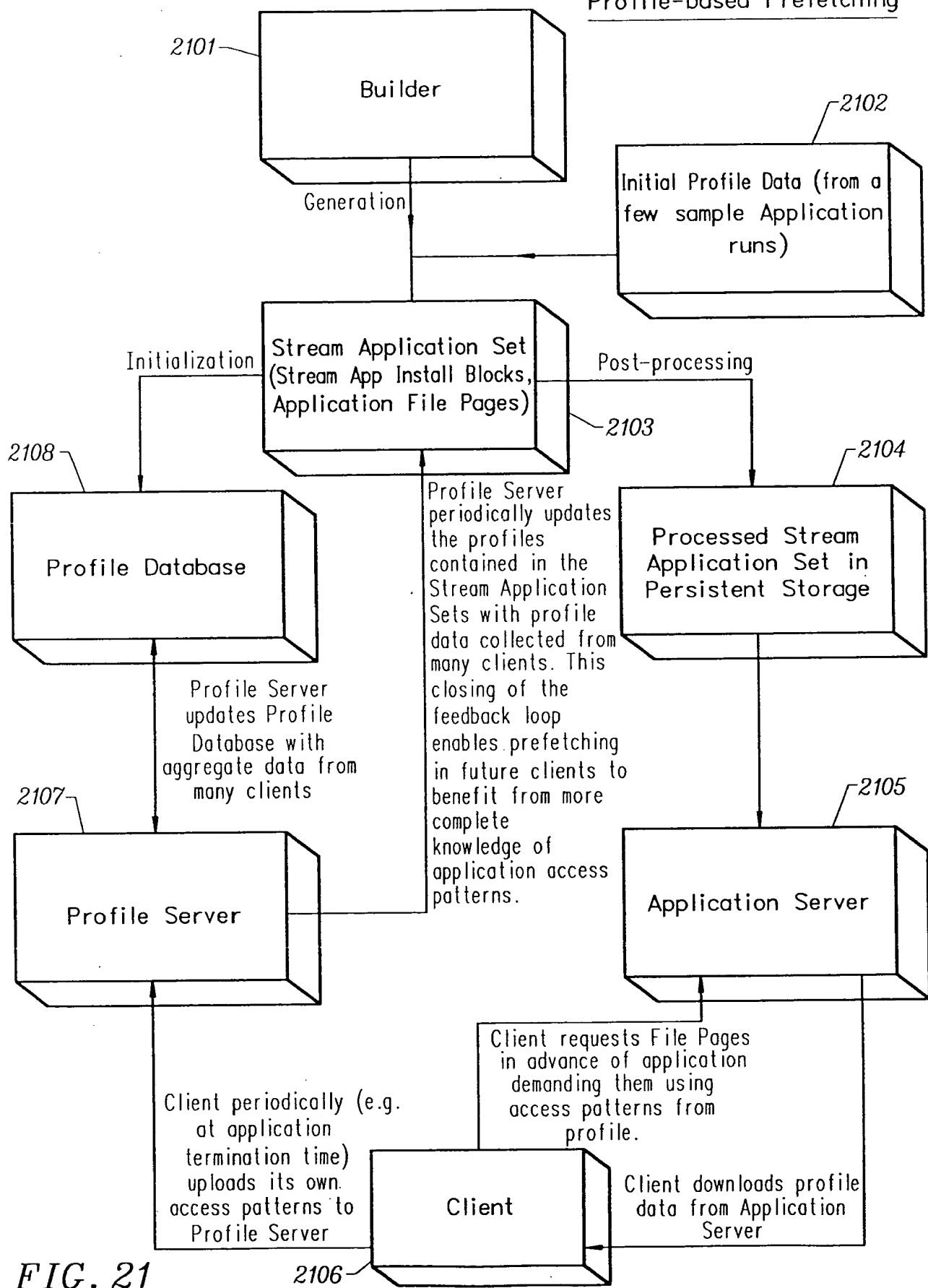
Profile-based Prefetching

FIG. 21

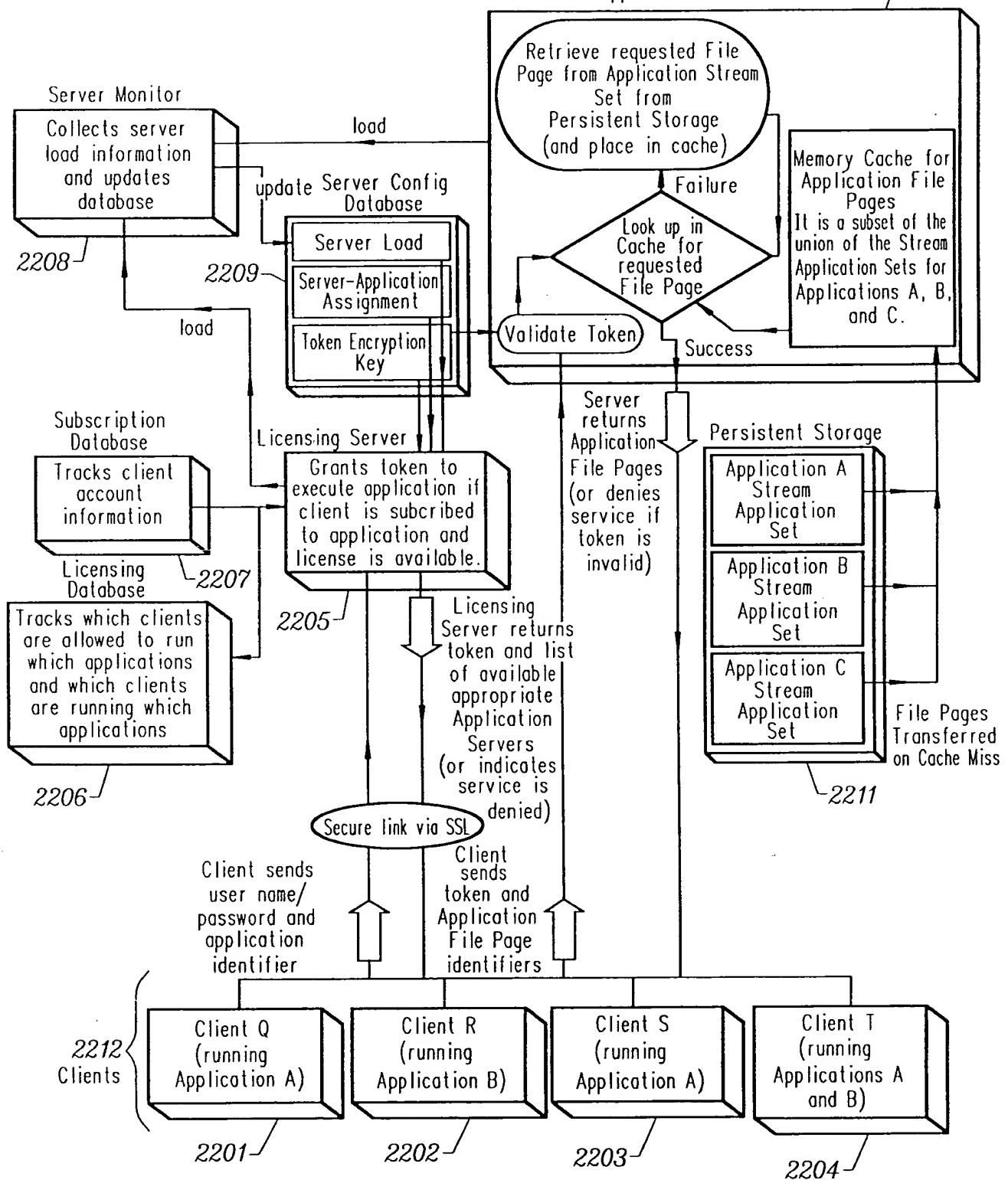


FIG. 22

Builder Install Monitor (IM) Control Flow Diagram

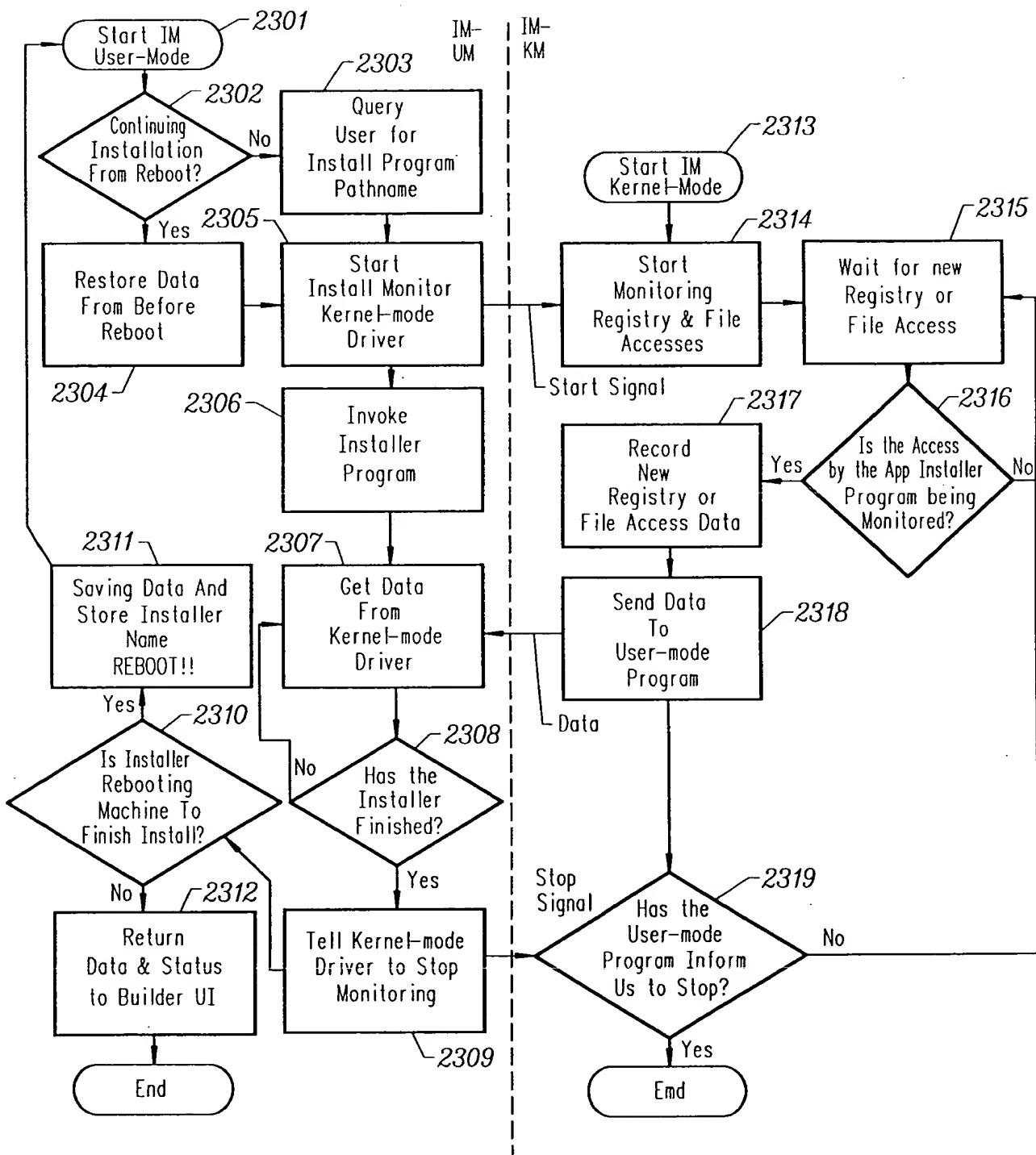


FIG. 23

Builder Application Profiler (AP) Control Flow Diagram

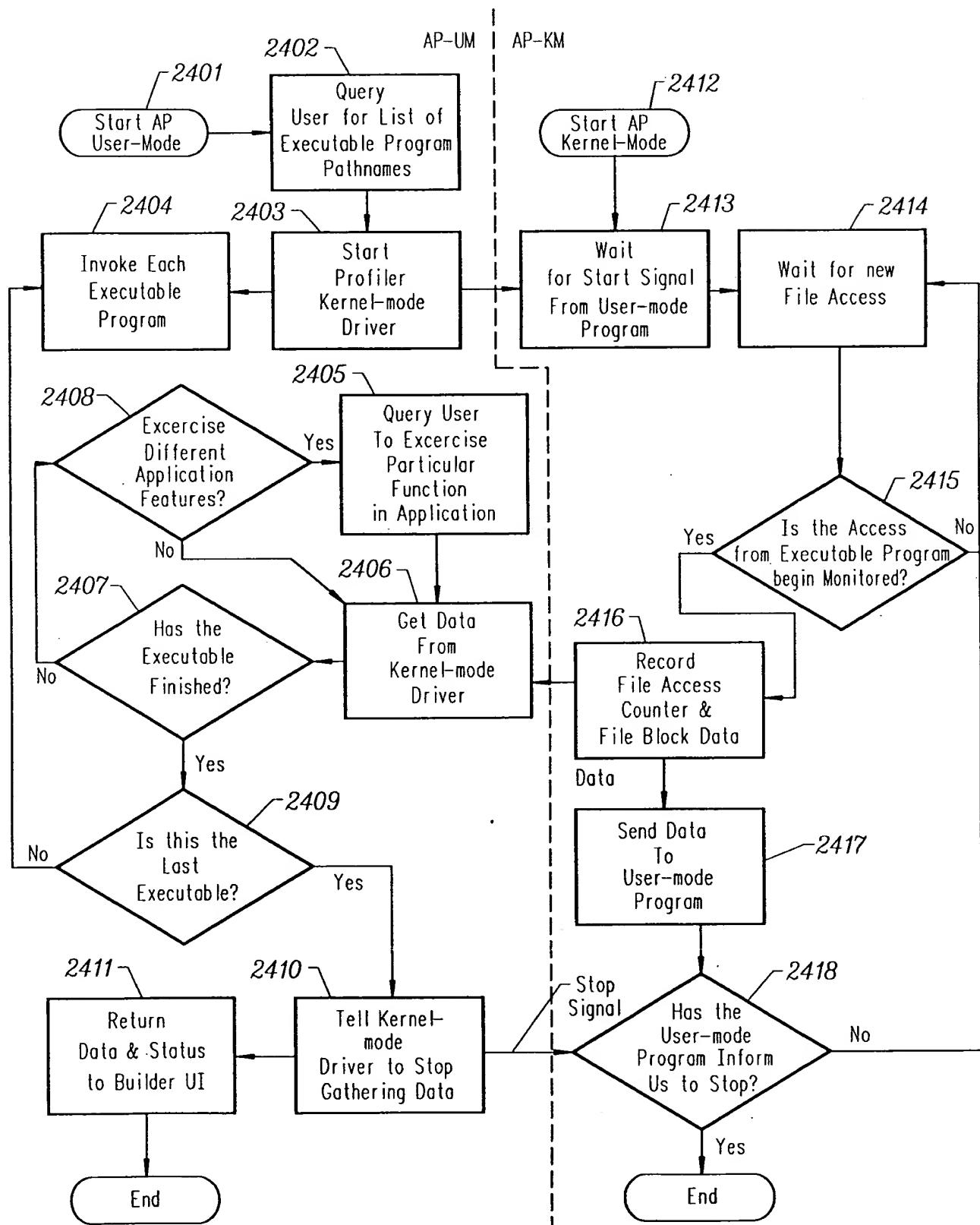


FIG. 24

Builder SAS Packager (SP) Control Flow Diagram

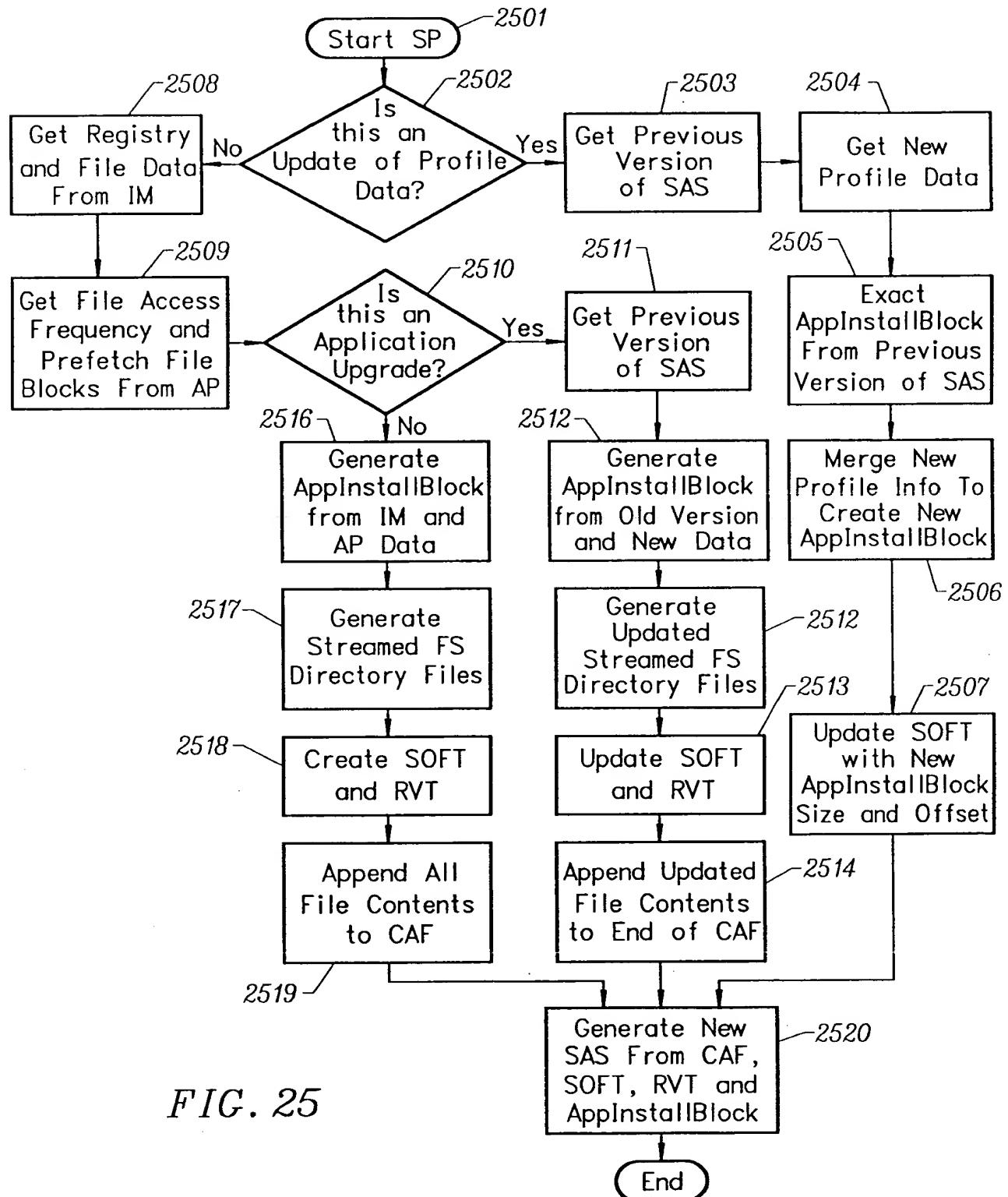


FIG. 25

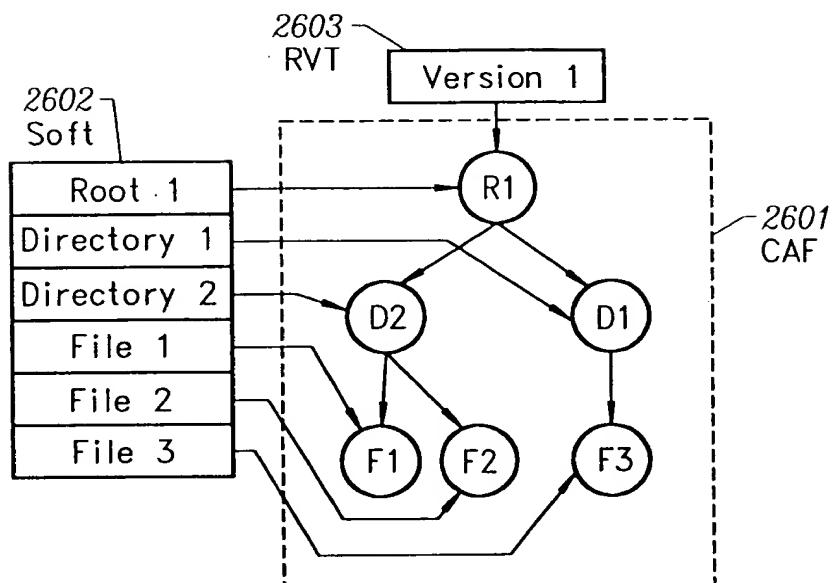


FIG. 26A

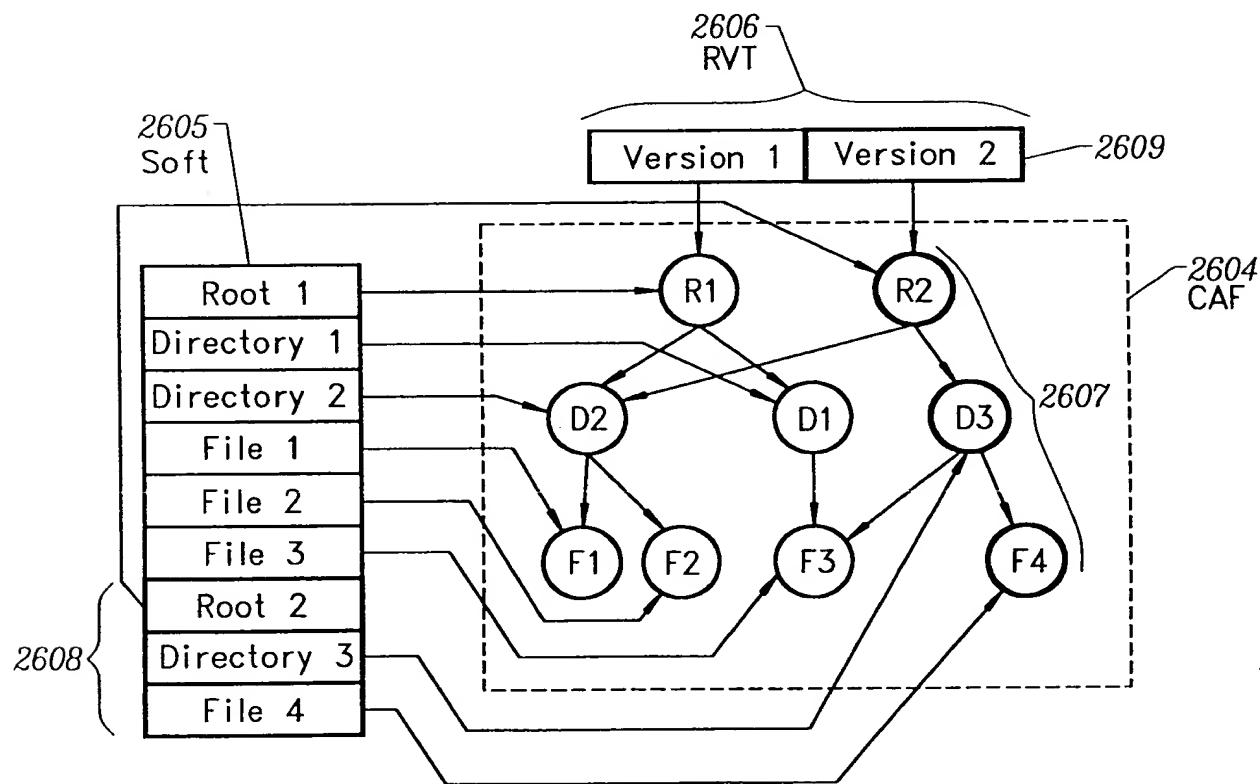


FIG. 26B

Streamed Application Set (SAS) Builder Data Flow Diagram

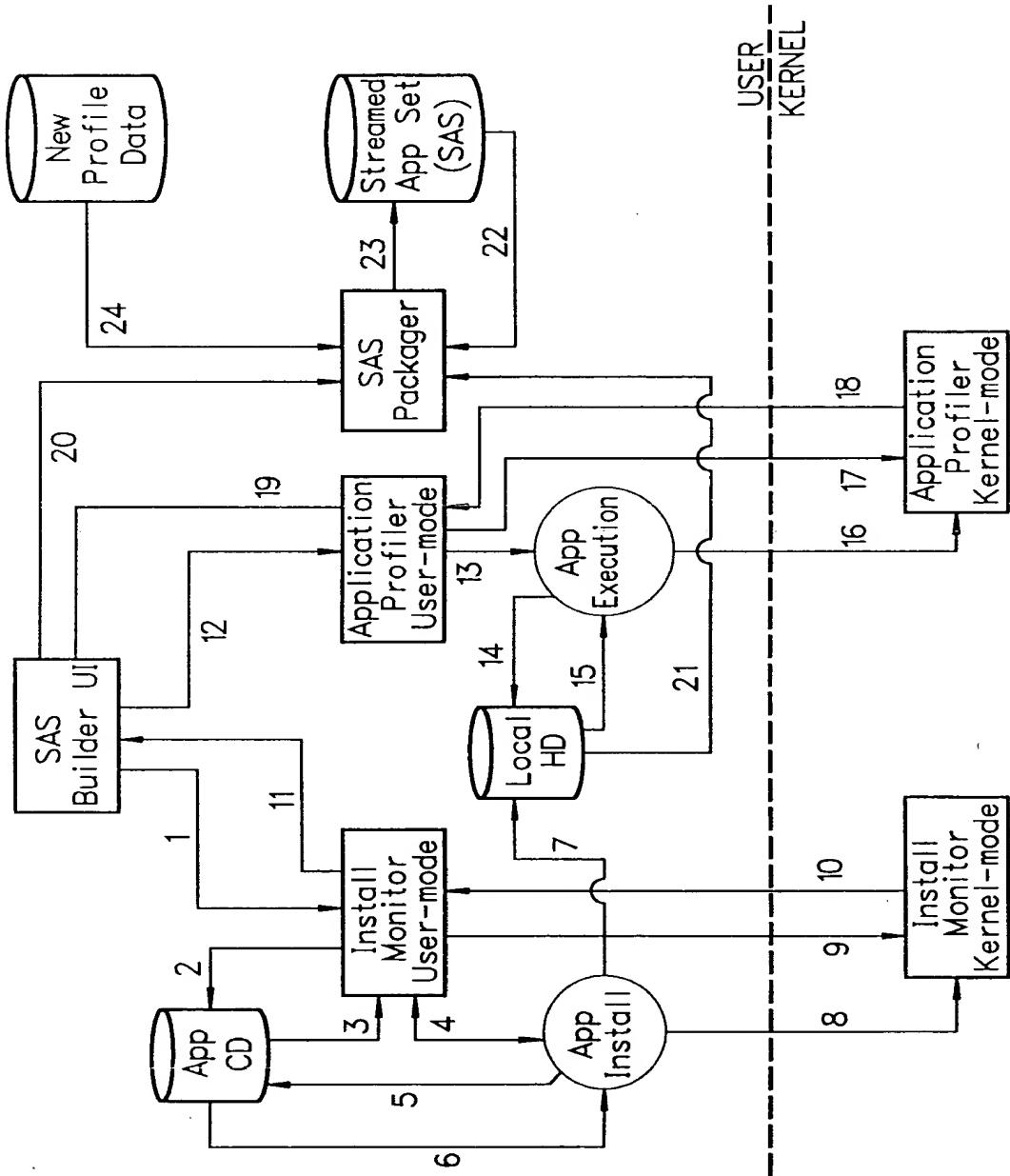


FIG. 27

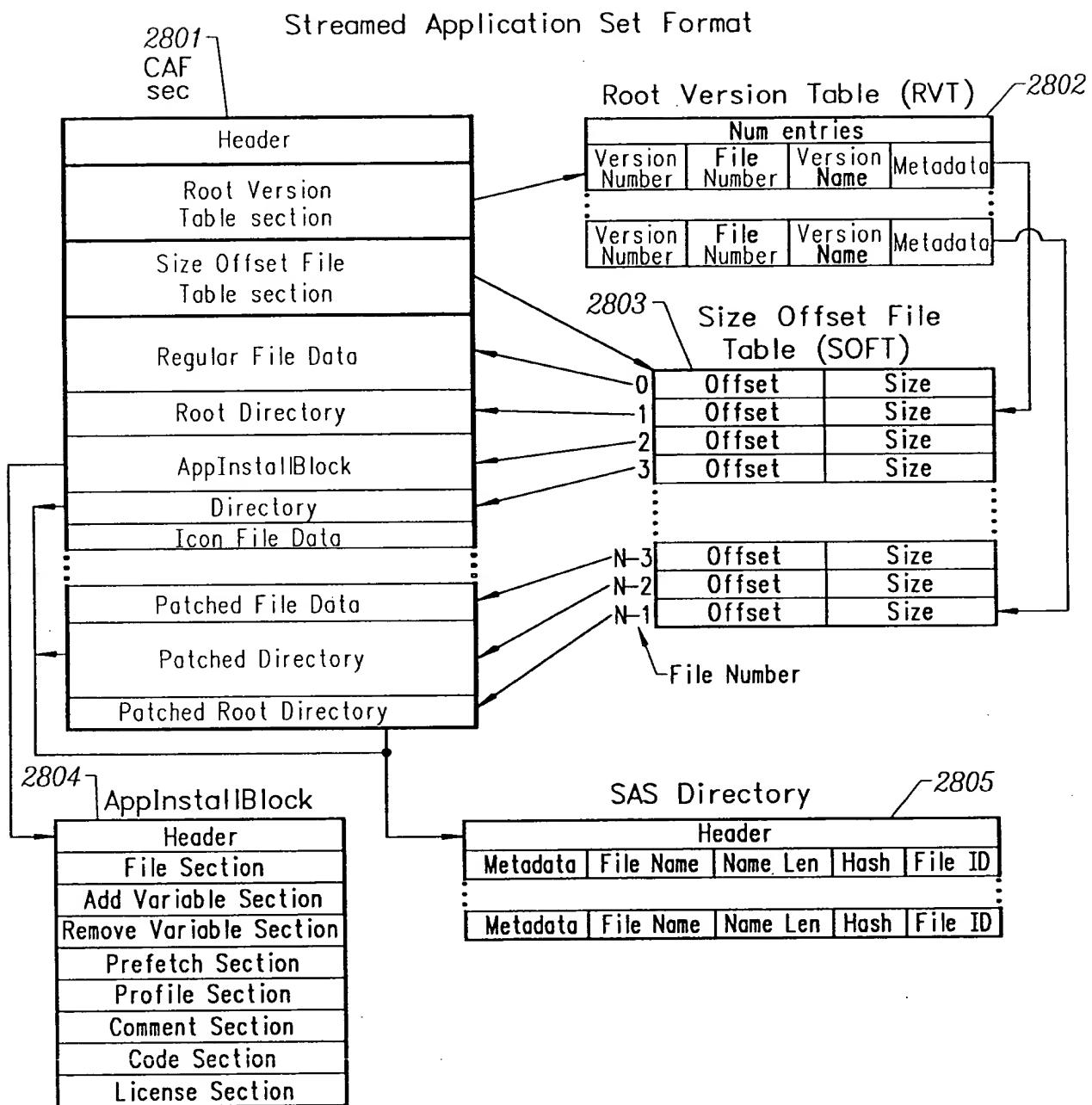


FIG. 28

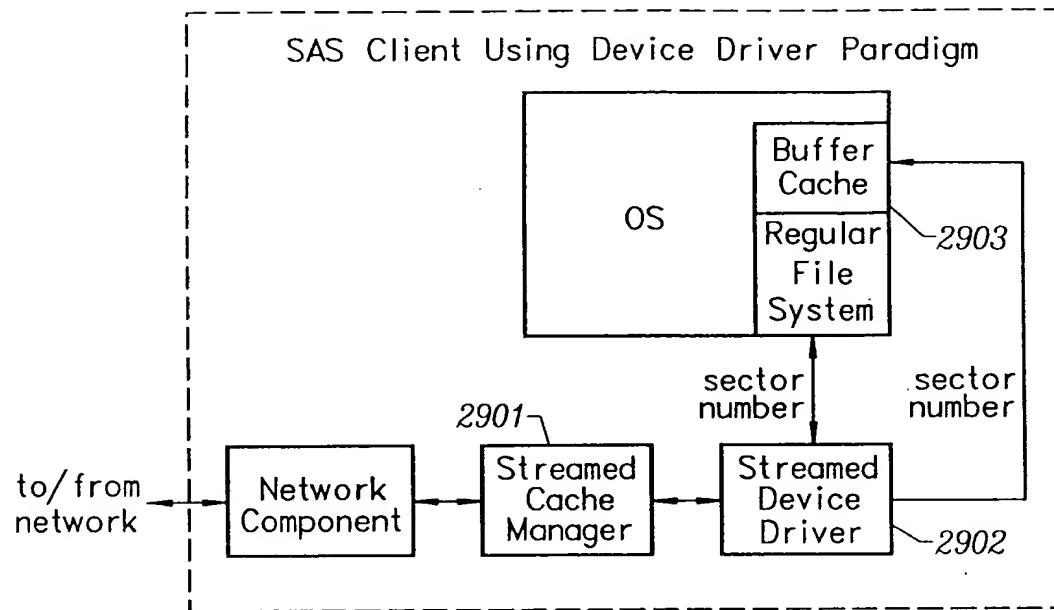


FIG. 29

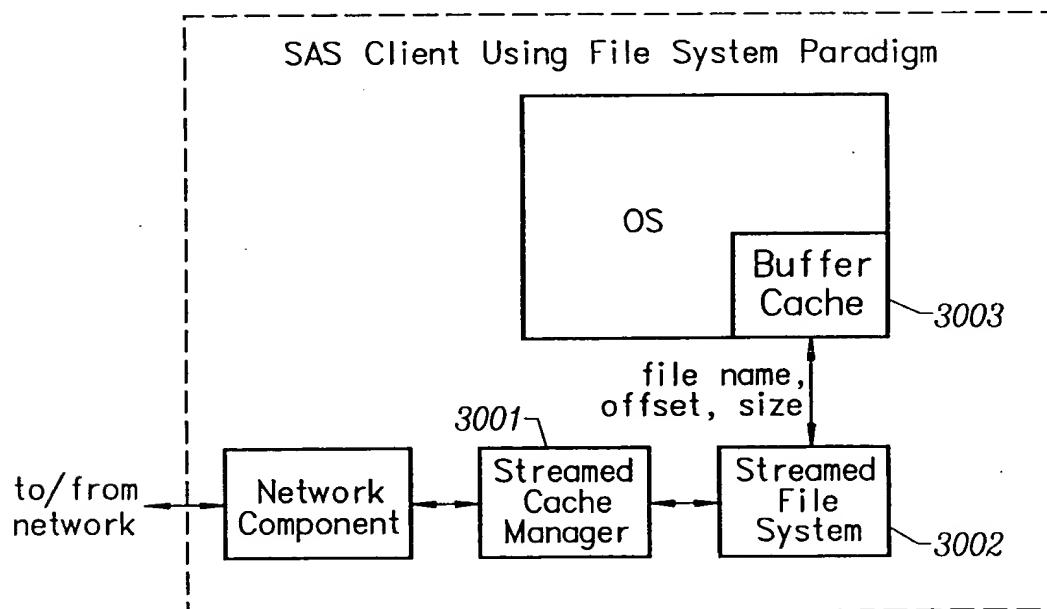


FIG. 30

0 4 8 12 16 bytes

A/B Version		AppID (GUID)			
AppID cont.		Version No	Client OS bitmap		Client OS ServicePack
Header Byte Size	Number Sections	Section 1 Type (Files)		Section 1 Byte Offset	Section 1 Byte Size
Section 2 (Registry)		Section 2 Byte Offset	Section 2 Byte Size		Section 3 (Prefetch)
Section 3 Byte Offset		Section 3 Byte Size	Section 4 (Profile)		Section 4 Byte Offset
Section 4 Byte Size		Section 5 (Comments)	Section 5 Byte Offset		Section 5 Byte Size
Section 6 (Code)		Section 6 Byte Offset	Section 6 Byte Size	App Name Length	Application Name (x bytes)

3101 Header

FIG. 31A

Section 1
Offset

0 4 8 x bytes

Flags	NumChildren	Directory Name Length	Directory Name (x bytes)	
Flags	File version	File Name Length	Data Length	File Name (x bytes)
File Name (x bytes) cont.		Data Content (x bytes)		

3102 File

FIG. 31B

Section 2
Offset

0 4 8 x bytes

Exist File	Number Children	Value Type		Key Name Length	Key Name (x bytes)	Value Data (x bytes)
Key Flag	Value Type	Value Name Length	Value Name (x bytes)		Value Data (x bytes)	

3103 Add/
Remove Reg

FIG. 31C

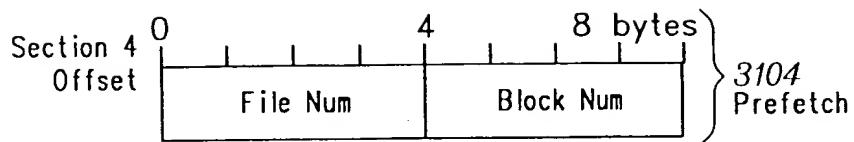


FIG. 31D

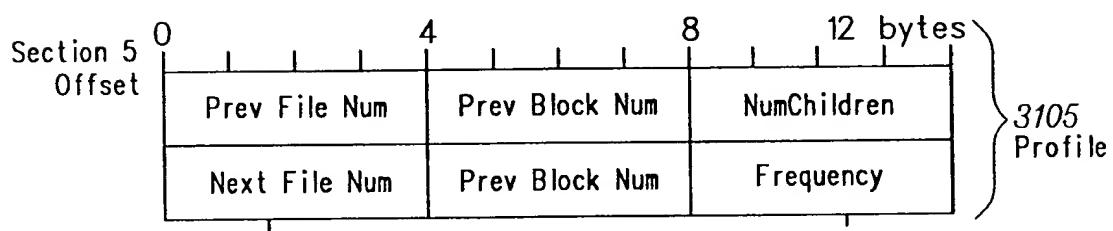


FIG. 31E

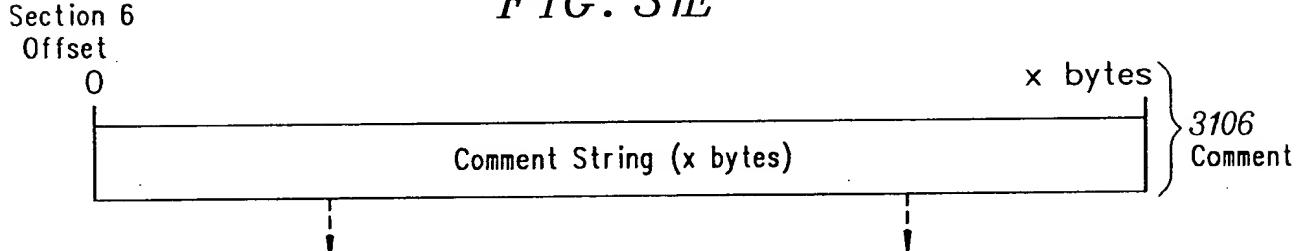


FIG. 31F

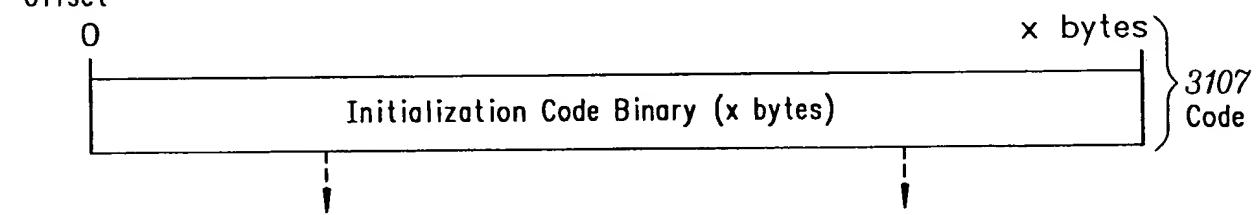


FIG. 31G

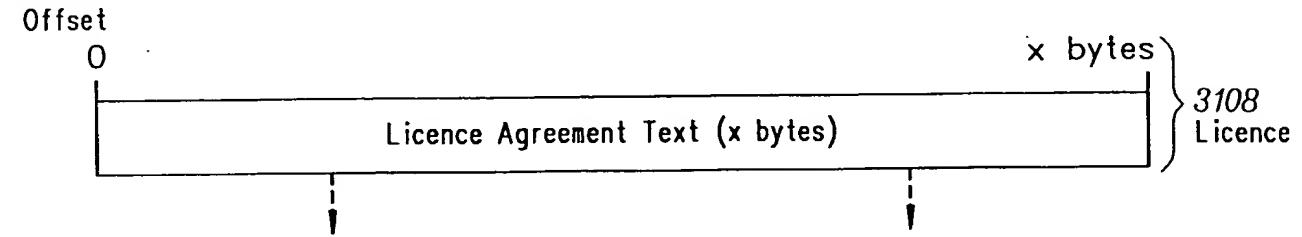


FIG. 31H

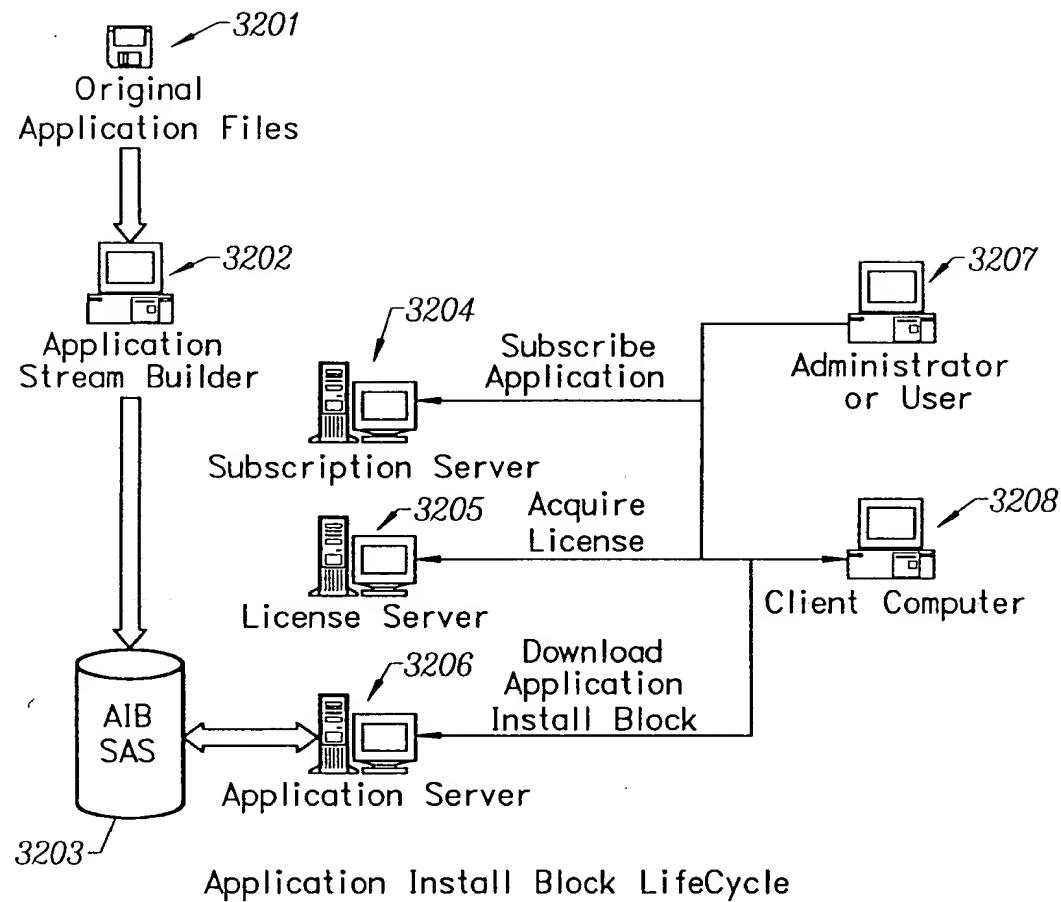


FIG. 32

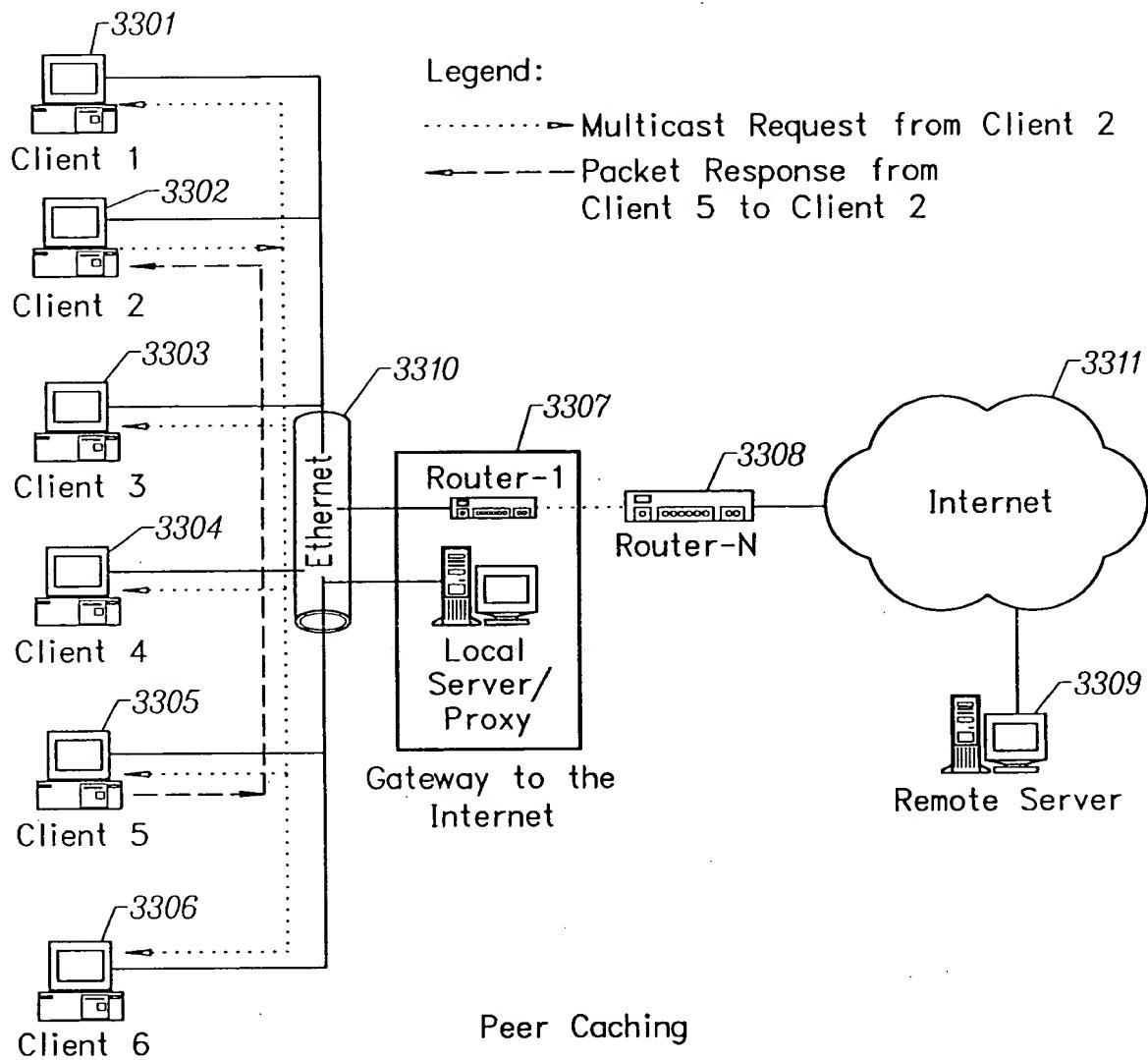


FIG. 33

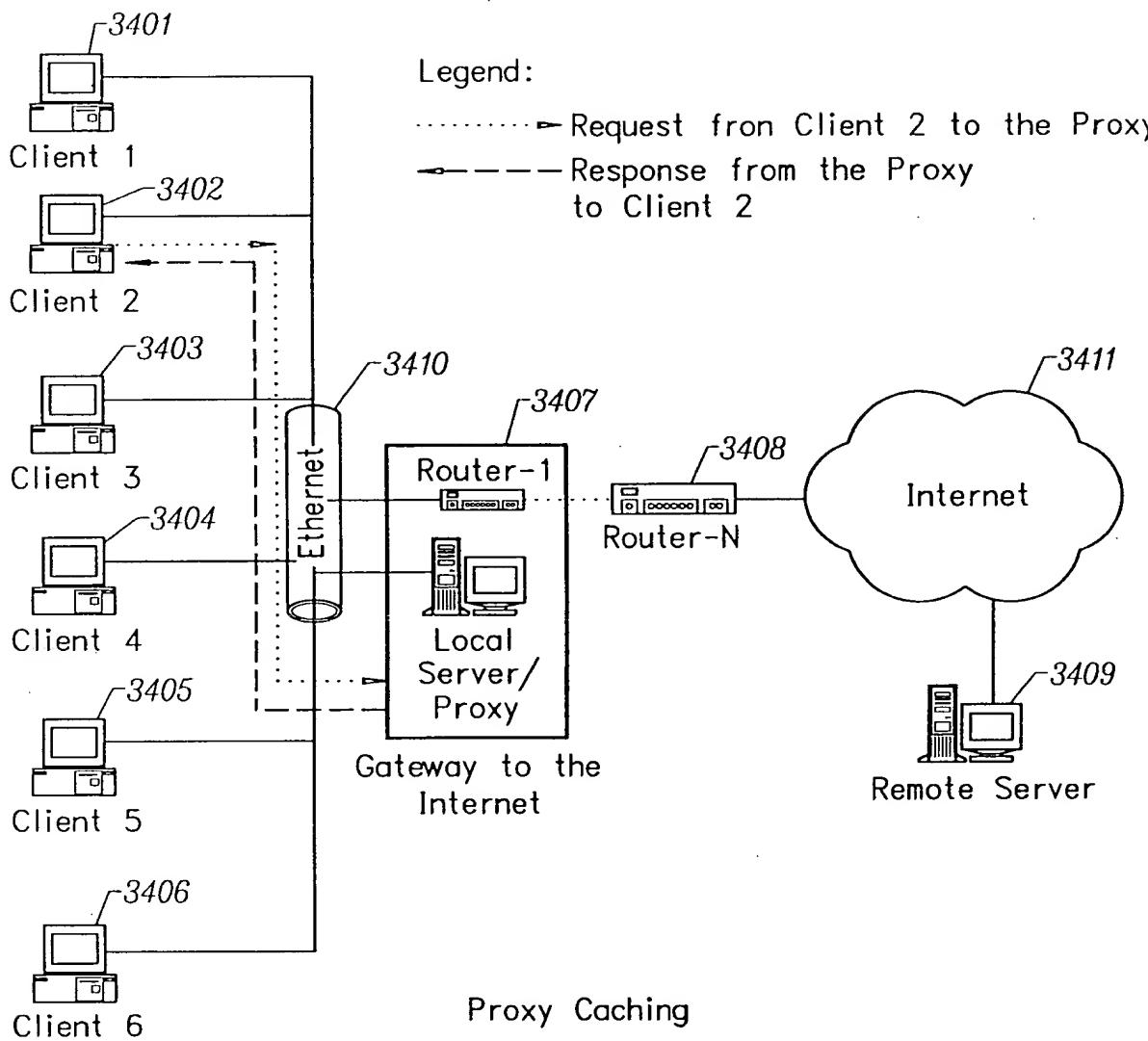


FIG. 34

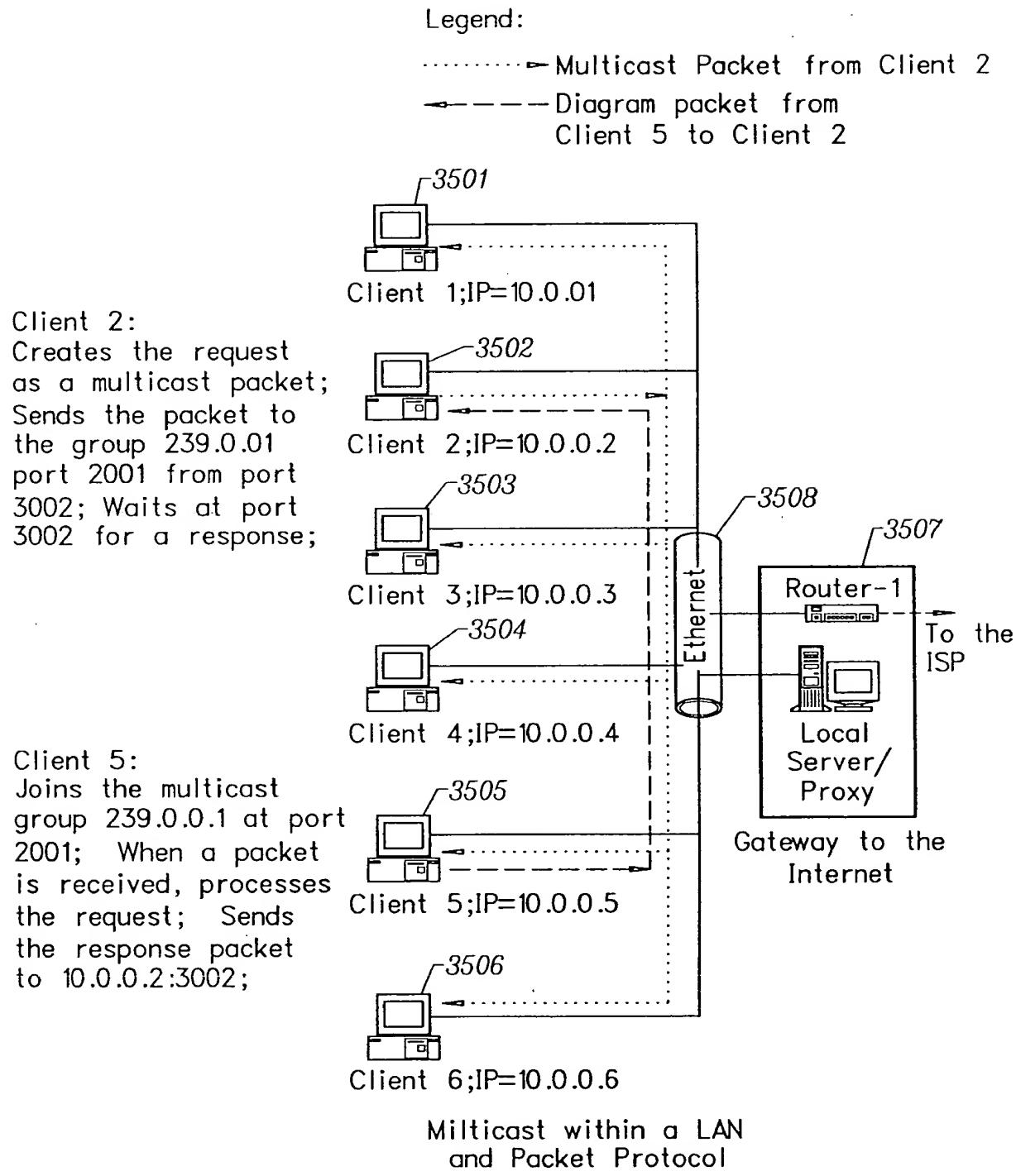
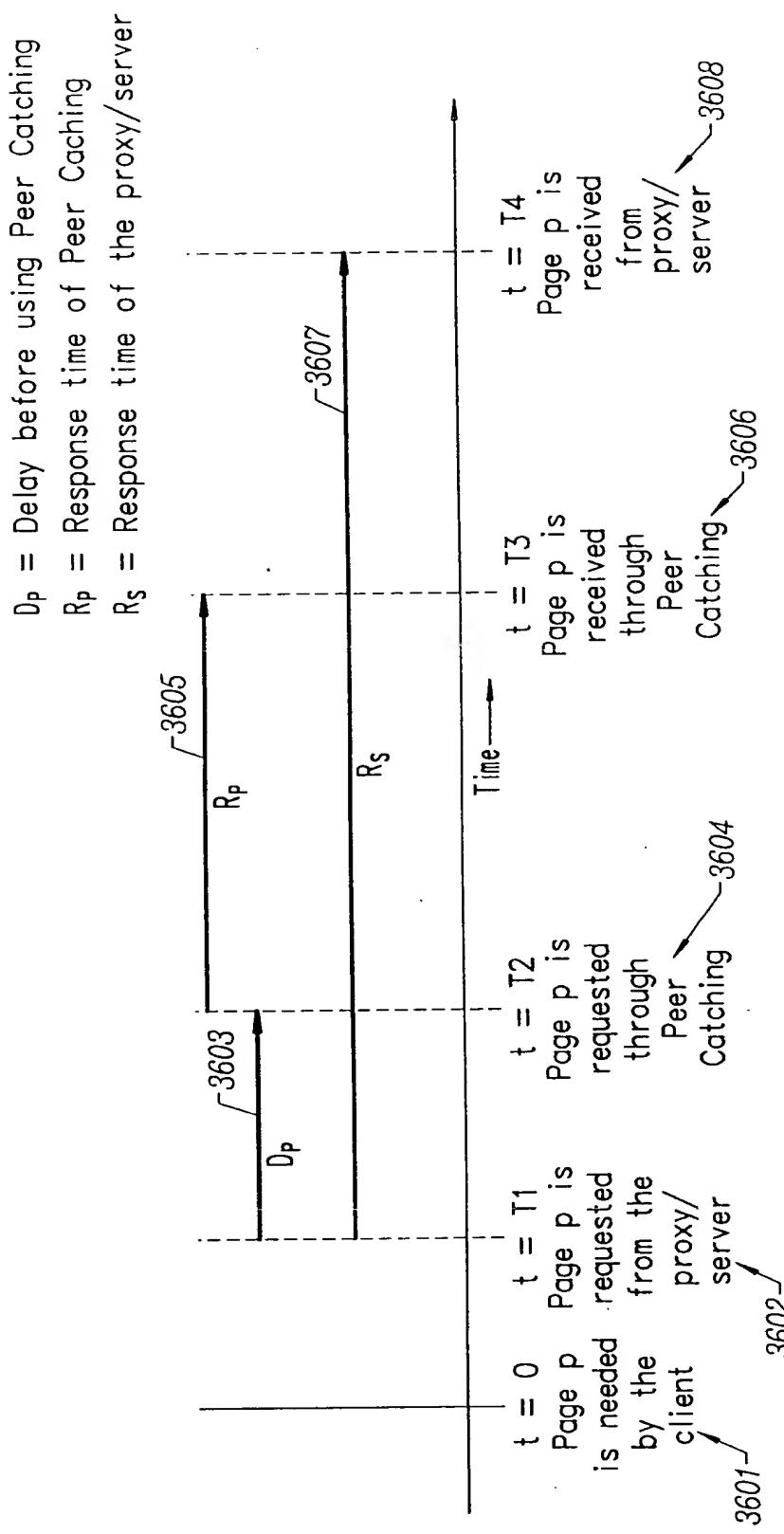


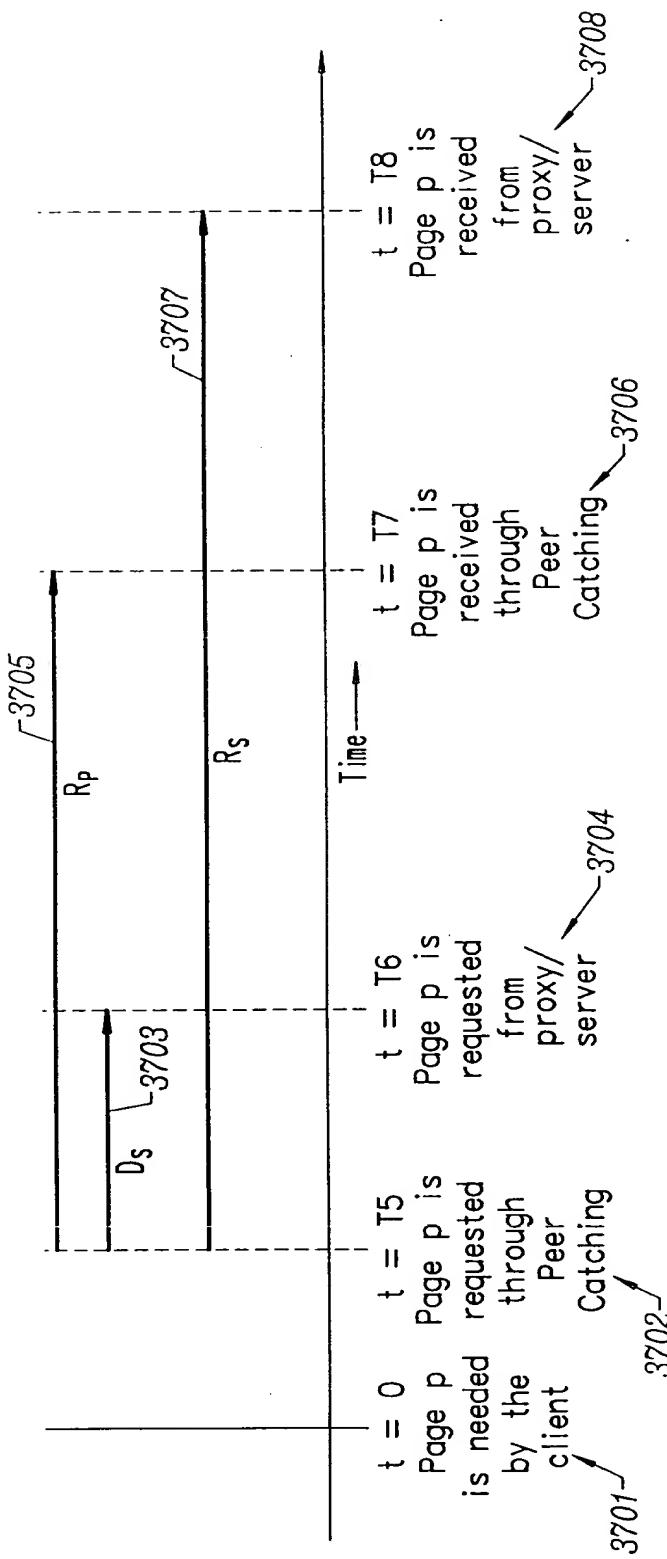
FIG. 35



Concurrent Requesting - Proxy First

FIG. 36

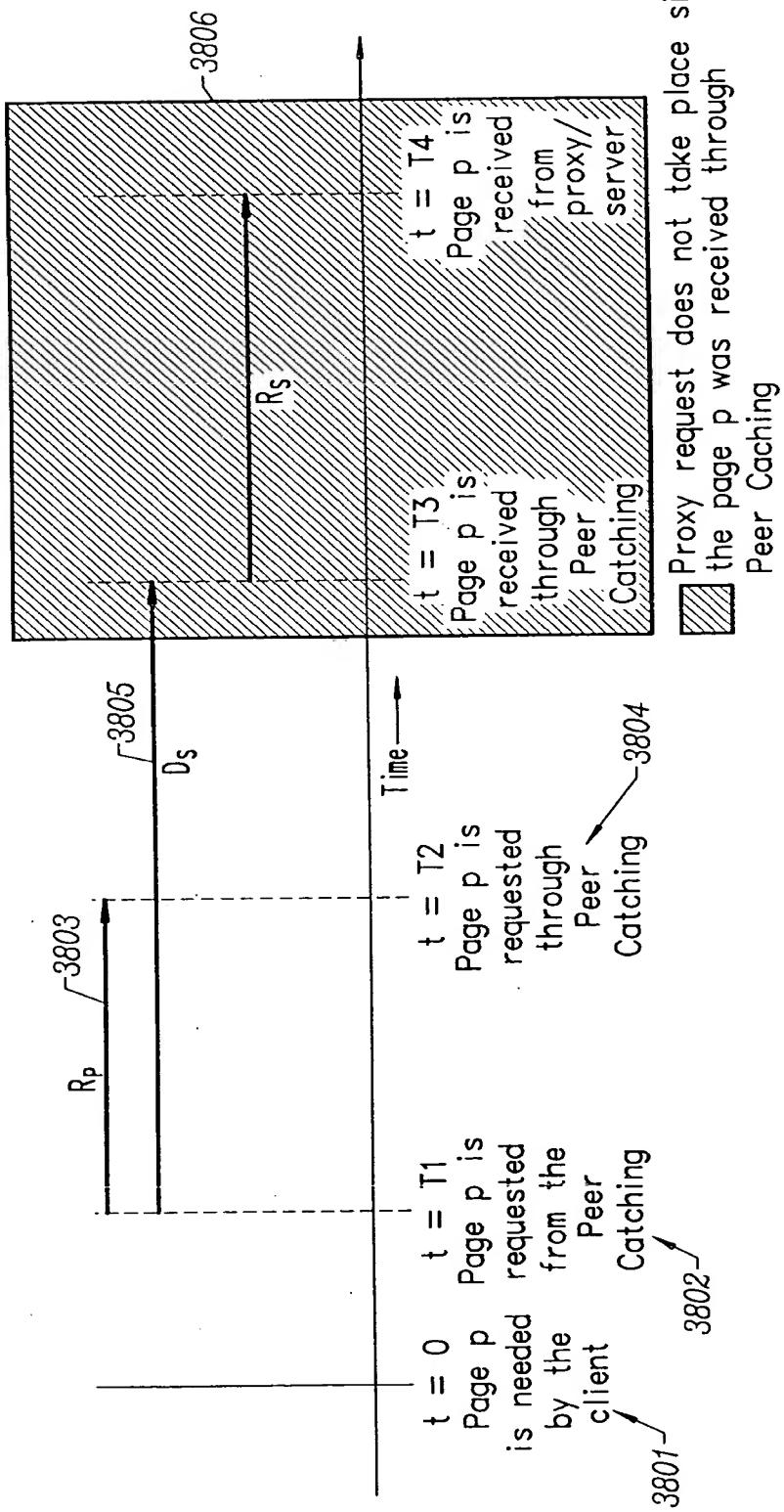
D_s = Delay before requesting proxy/server
 R_p = Response time through Peer Caching
 R_s = Response time of the proxy/server



Concurrent Requesting - Peer Catching First

FIG. 37

D_s = Delay before requesting proxy/server
 R_p = Response time through Peer Caching
 R_s = Response time of the proxy/server

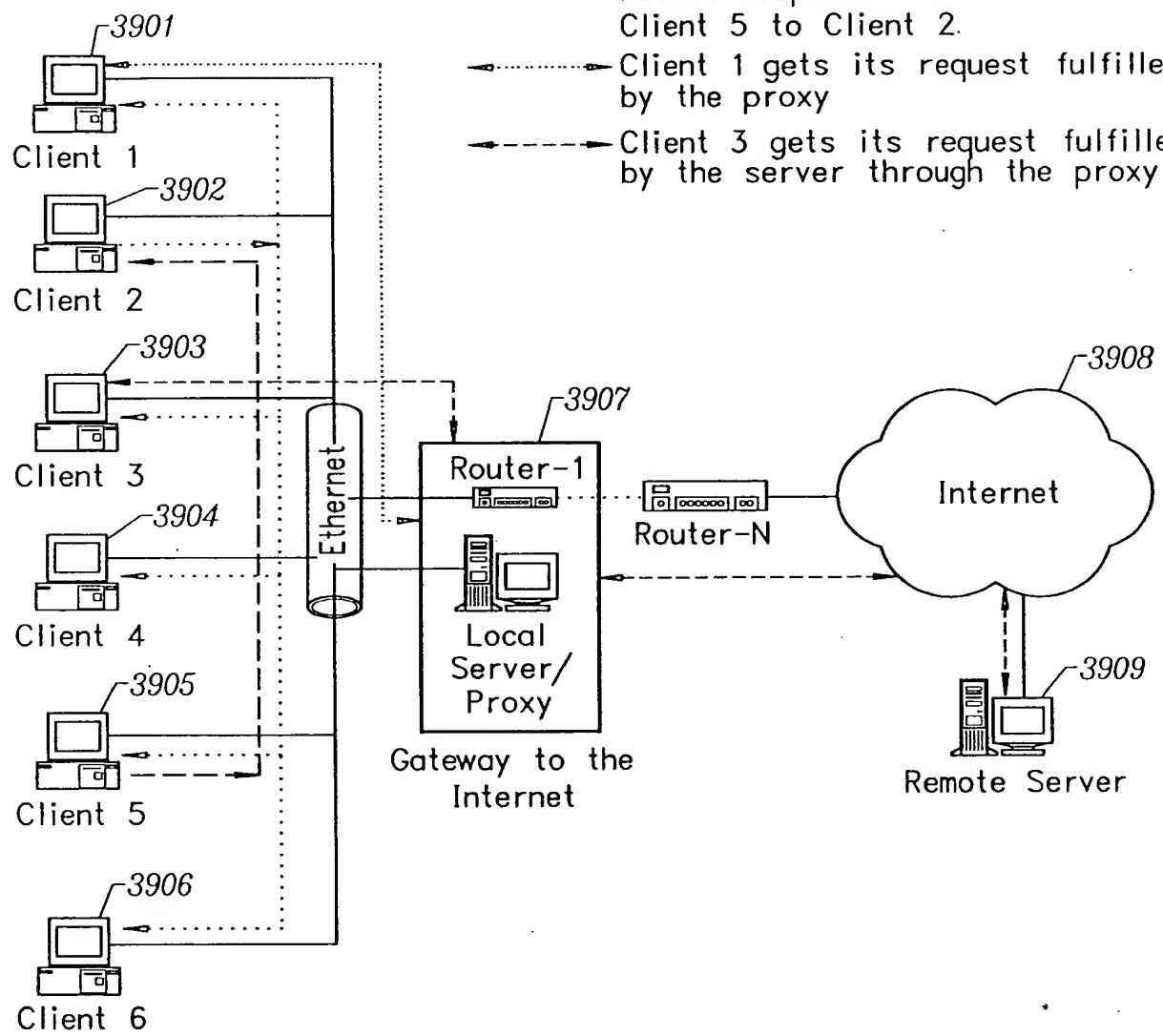


Concurrent Requesting - Peer Caching Only

FIG. 38

Legend:

- > Multicast Request from Client 2
- > Packet Response from Client 5 to Client 2.
- > Client 1 gets its request fulfilled by the proxy
- > Client 3 gets its request fulfilled by the server through the proxy



Client-Server System with Peer
and Proxy Caching

FIG. 39

Preventing Piracy of Remotely Served,
Locally Executed Applications

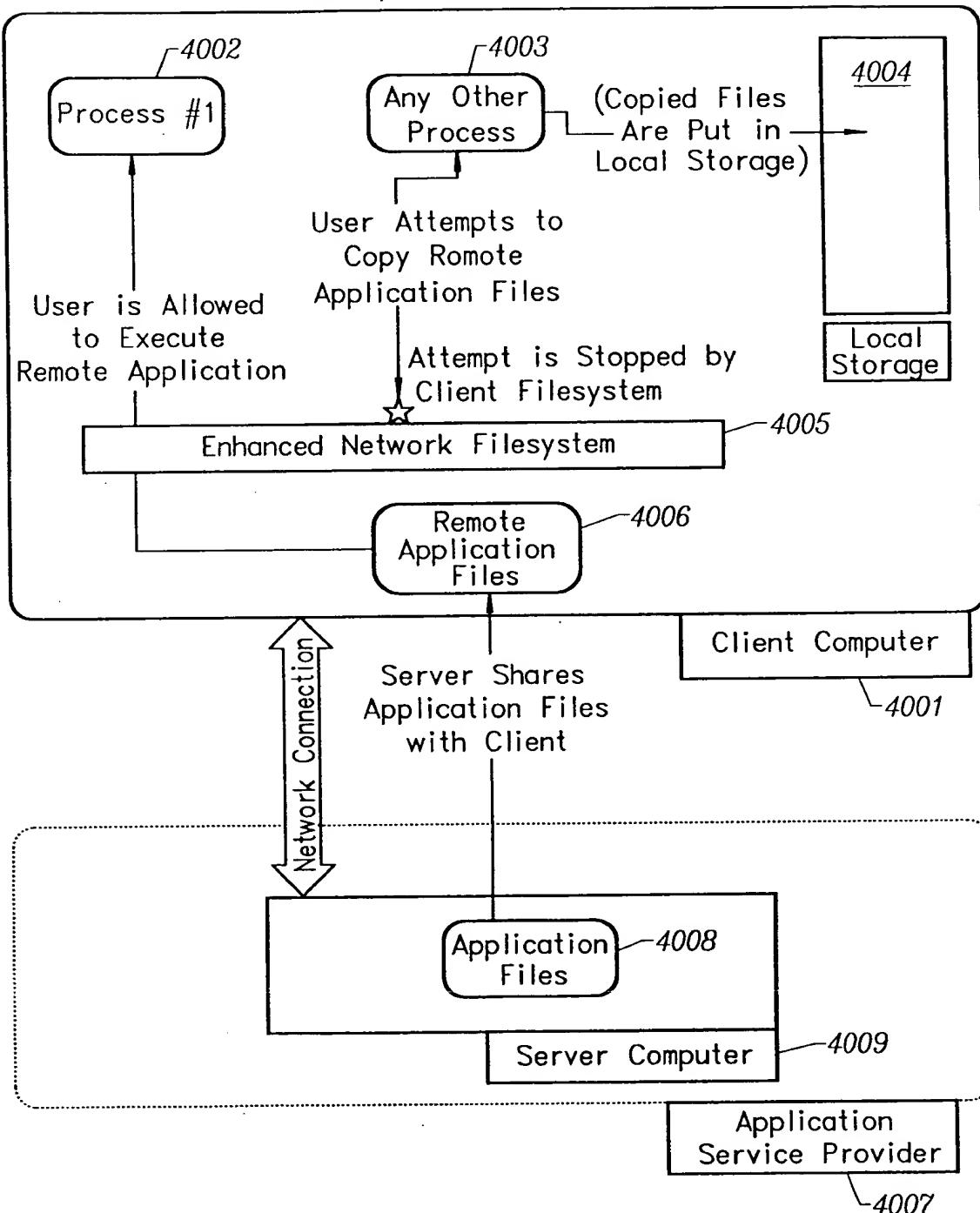


FIG. 40

Filtering of Accesses to Remote Application Files

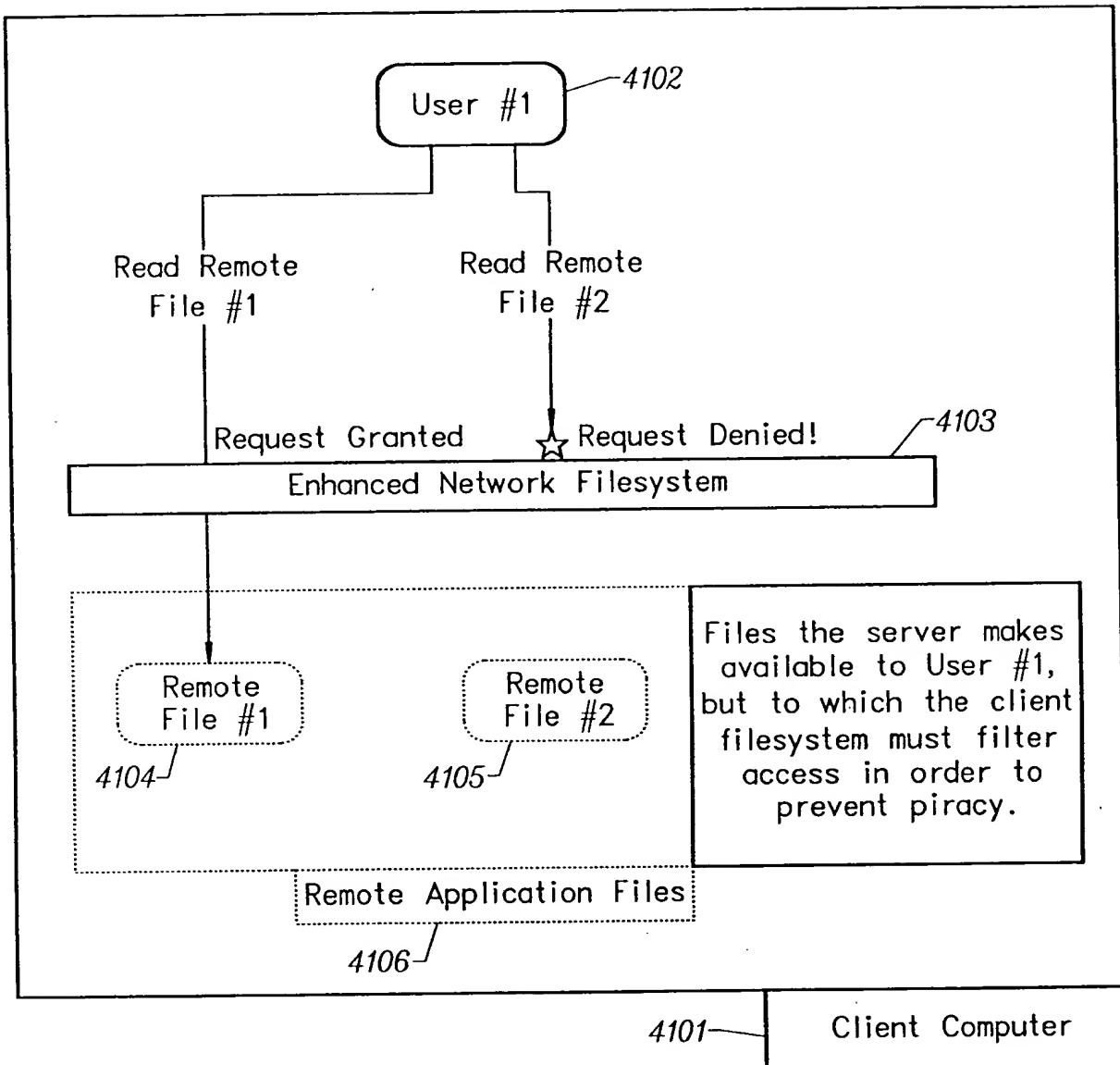


FIG. 41

Filtering of Accesses to Remote Files
Based on Process Code Location

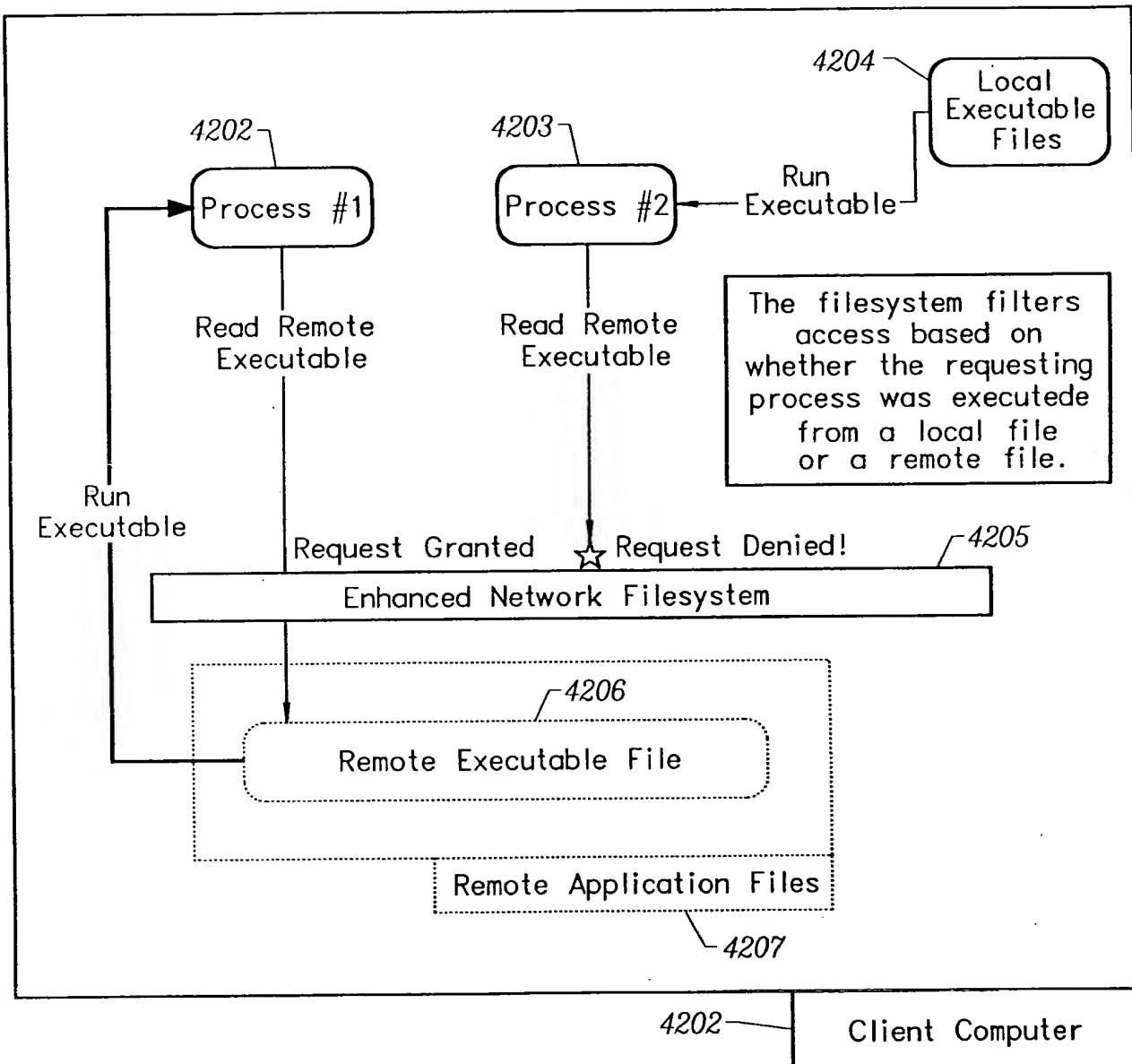


FIG. 42

Filtering of Accesses to Remote Files
Based on Targeted File Section

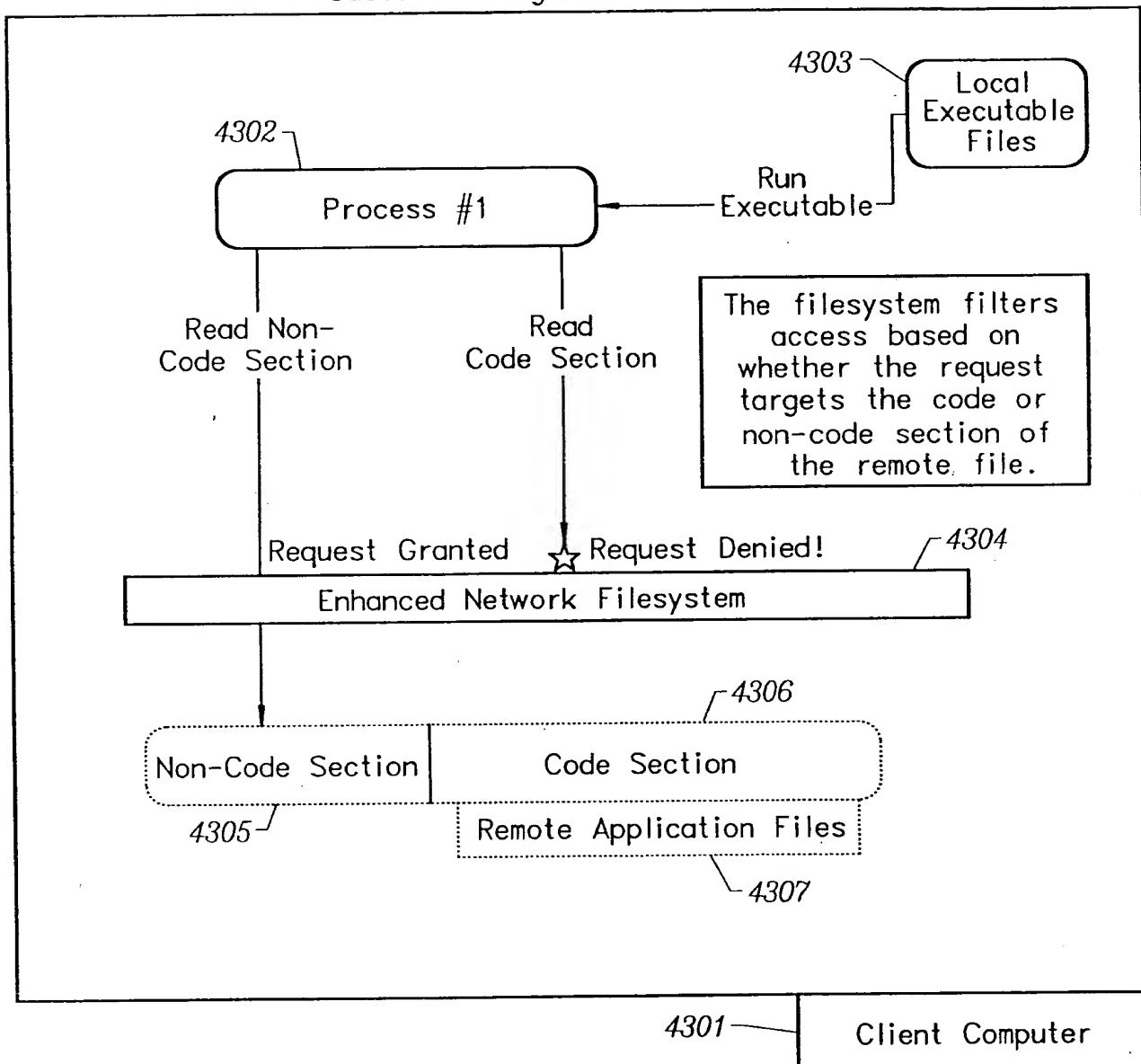


FIG. 43

Filtering of Accesses to Remote Files
Based on Surmised Purpose

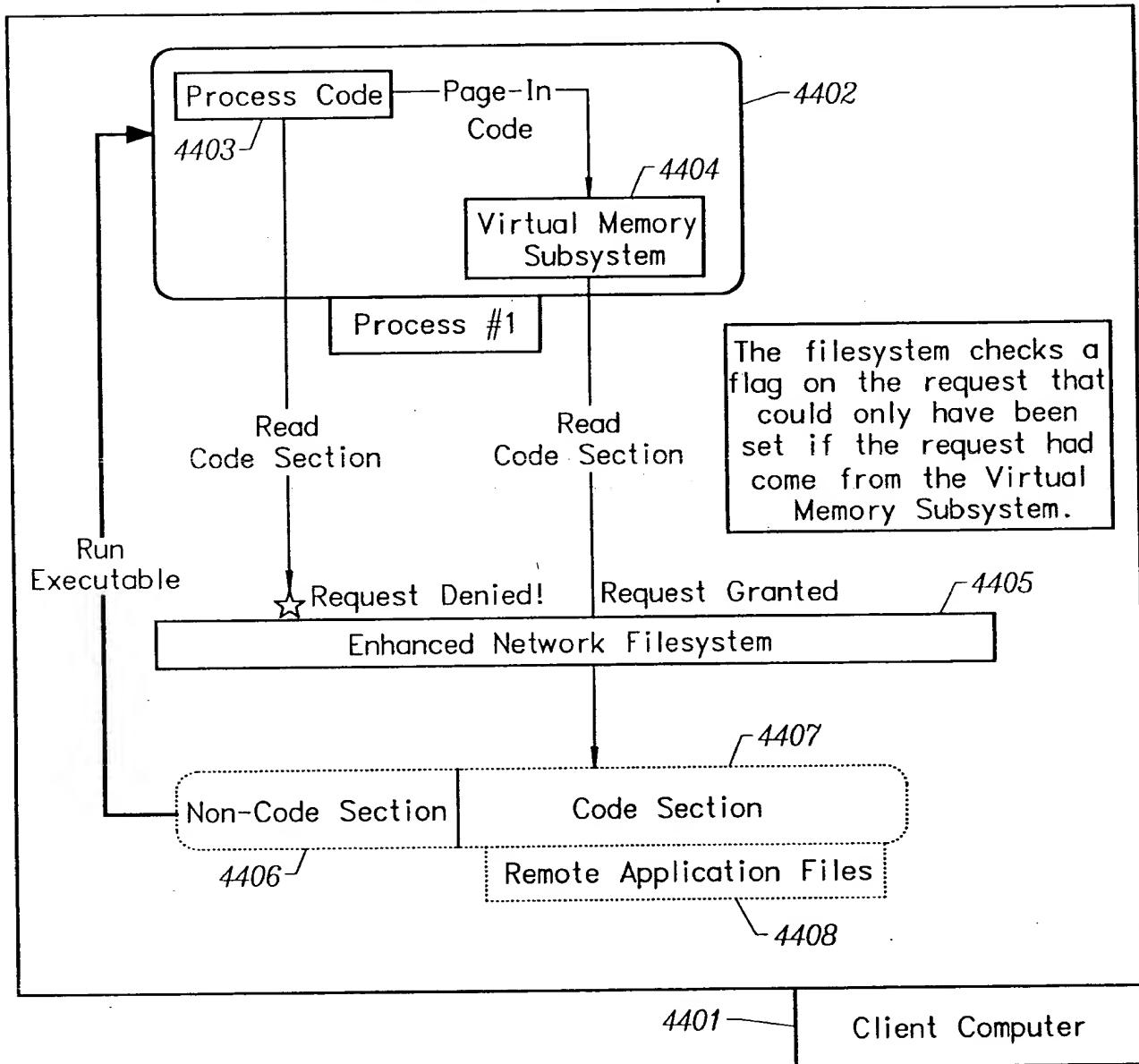


FIG. 44

Filtering of Accesses to Remote Files
Based on Past Access History

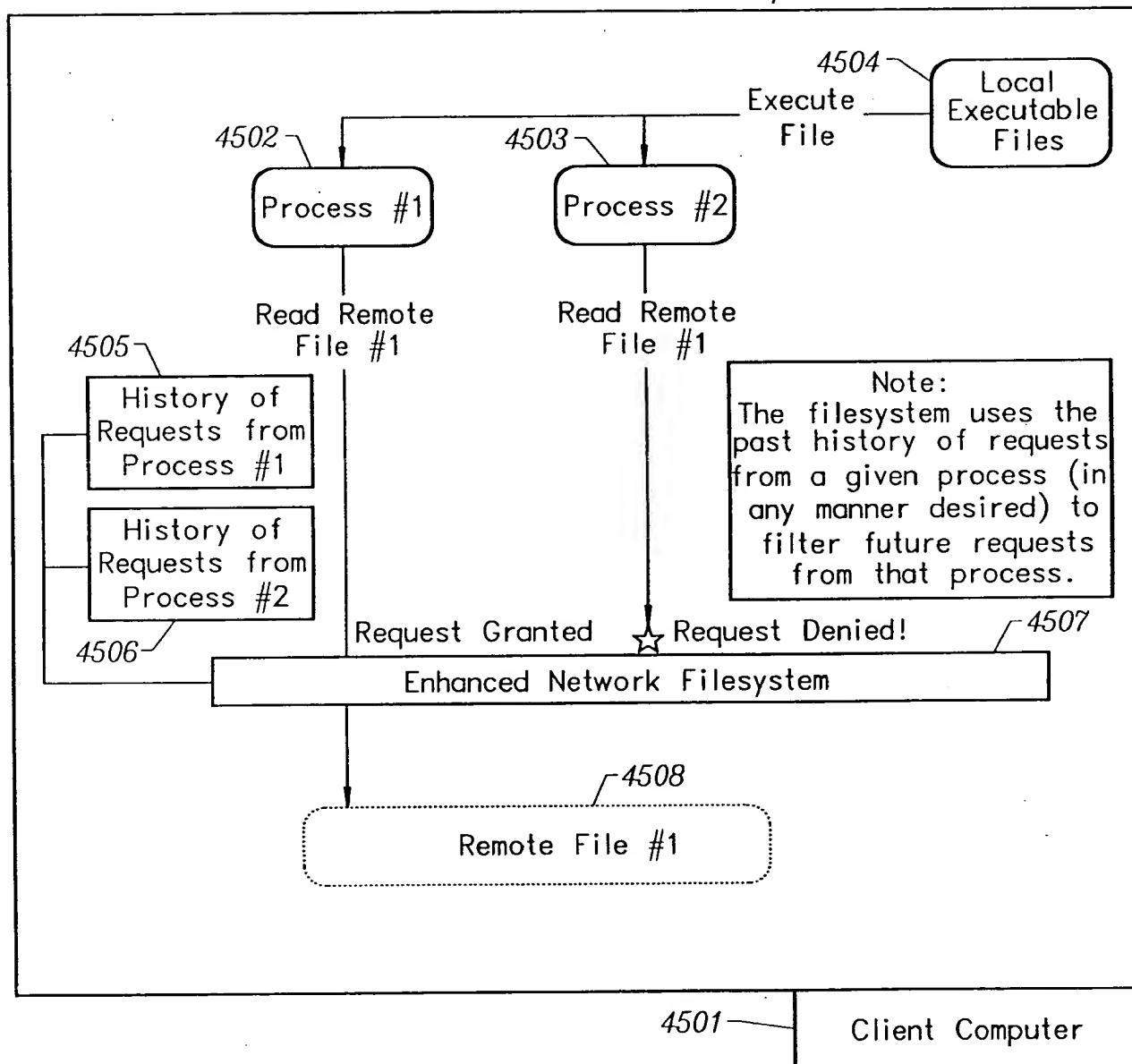


FIG. 45